

COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 246D-R[#]2 STATE HIGHWAY NO. 6 PUEBLO COUNTY

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SCALES OF ORIGINAL TRACINGS

ON PLAN, 1 IN. = 100 FT.

ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT } 28,598.8 FT. = 5.416 MI.

NET LENGTH OF PROJECT }

246.041802

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY

RIGHT OF WAY LINES

TOWNSHIP LINES

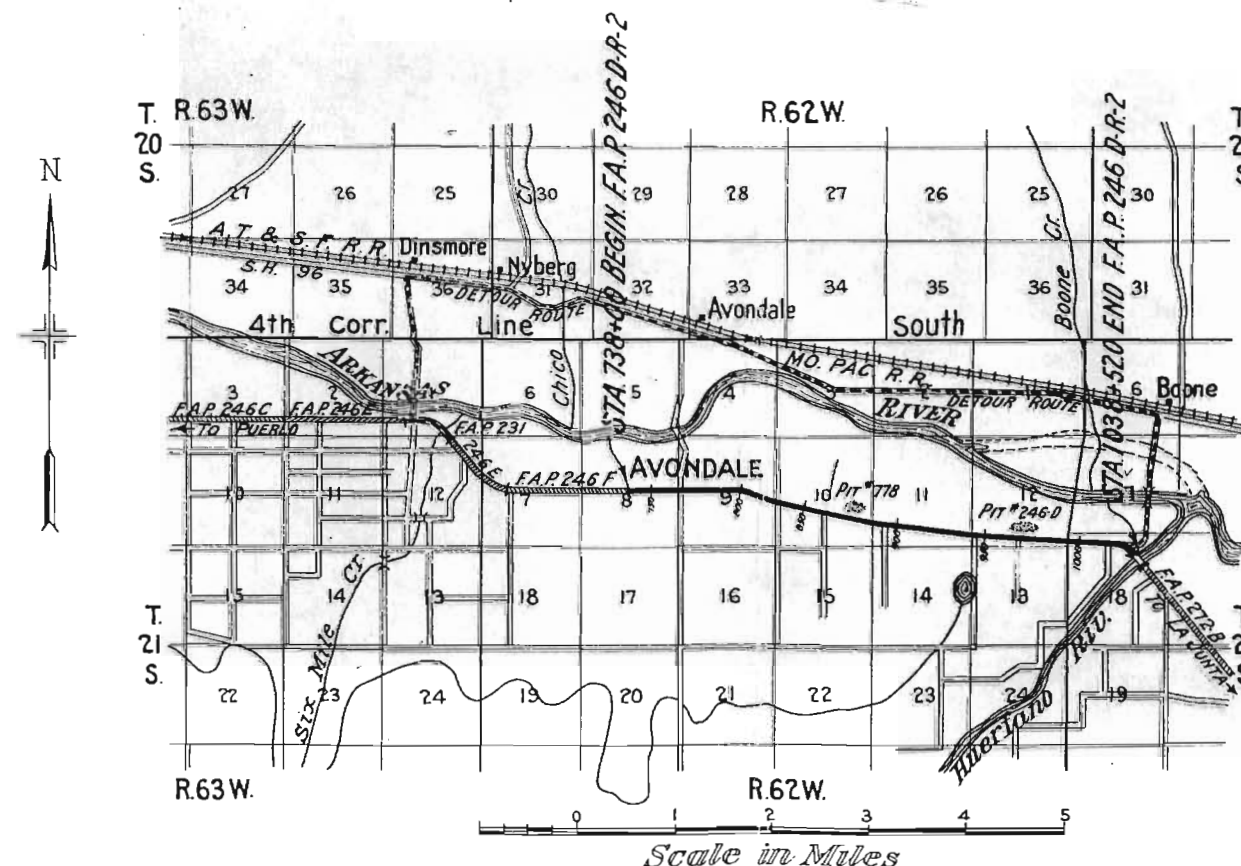
SECTION LINES

ONE QUARTER SECTION LINE

BARBED WIRE FENCE

RAILROADS

POLE LINES



Note: It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this Department.

Jas. D. Bell, Division Engineer, located at Pueblo.

R.S. Trillson, Resident Engineer, " " "

RECOMMENDED FOR APPROVAL 10-15-37

J. H. Maloney
ASSISTANT ENGINEER

APPROVED
Chas. J. Fair
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

DIRECTOR BUREAU PUBLIC ROADS

LIST OF STRUCTURES

[illegible]

LIST OF STRUCTURES

LOCATION STATION	DESCRIPTION	REMOVE STRICT		EXCAVATION		★ STRUCT EXCAV.		CONCRETE		REIN. STEEL	CORR. METAL CULV PIPE				RELAY PIPE	RIP RAP	SEWER INLETS	REM. HOWLS CUT	ROADWAY SURF	8" PIPE	MISCELL.
		EACH	UNCL.	EMBK	C.U.Y.D.	C.U.Y.D.	CL.A	CL.B	LBS		15"	18"	24"	36"	18"	24"	C.U.Y.D	EACH	TONS		
969+08	Rem. Howls cut keyways: Ext 2x2 C.B.C.																				
977+30	10 L. 14 R.; 2 Howls: Inlet & outlet		30						1246		20								1	14	
982+20	Rd. approach & C.M.P. side drain			5					9098												
989+50	8x5x6 C.B.C. Type B.I. Inlet & outlet 105° skew		20			Force Acct.															
990+23	Remove farm house & cistern																				
992+30	C.M.P. Culv. 50° skew								7018				84								
992+80	10x3x46 C.B.C. Type 10-I. Inlet & outlet		80																		
994+90	Rem. triple 2x4x20 C.B.C.																				
	Road approach			100																	
995+10	2x2x46 C.B.C. Ditch change																				
1001+00	2x2x46 C.B.C. Inlet & outlet		10						1994												
1016+60	24x106 C.M.P. Siphon, H-3.5, Ditch change		15						1994												
1017+00	C.M.P. Cross Culv. Inlet & outlet		25						260												
1022+00	C.M.P. side drain, R. Rd. approaches R&L.																				
1022+25	2x2x48 C.B.C.								165												
1029+70	C.M.P. side dr. R. Rd. approaches R&L.								1994												
1032+50-1034+50	Rem. 300 l.f. wire cable guard fence, R.								1994												
1034+20	Rem. C.B.C.								260												
1036+50	Road approach																				
992+50	Rem 2x2x30 C.B.C.																				
1006+00	2x2x46 C.B.C. Inlet & outlet		25						1994												
989+20	Rd. approach & C.M.P. side drain																				
TOTALS 39'-8" WIDTH		17	10	2105					91	33,488	134	802	446	60	324	112	15	6	775	985	
PROJECT TOTALS		17	10	2160					91	33,488	134	802	786	60	324	112	15	6	775	985	

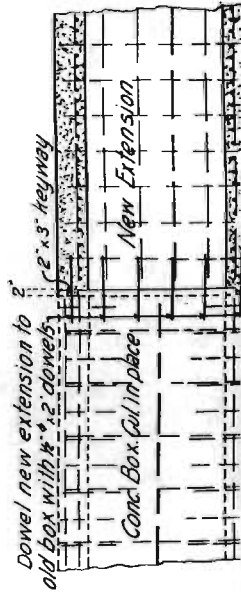
★ Selected Material.
★ Force Acct without Fed Aid.
★ Quantities pro-rated among 2 Roadway widths.
Note: Cost of Connecting Bands shall be included in the Contract price per lin. ft. for Corr. Metal Culvert Pipe & for 45° Elbows for C.M.P.

★ Structural Excavation is estimated to be 80 % Common & 20 % Rock, each of which is estimated to be 80 % Dry and 20 % Wet.

FENCING

STATIONS	SIDE	REMOVE FENCE		BUILD B.W.FENCE		REMOVE & RESET HOGWIRE ORNAMENTAL		GATES	
		LIN. FT.	70	1800	1870	1765	175	B.W.	DRWAY
738+00-738+50	R								
738+50-755+90	L								
738+00-756+95	R								
738+00-755+90	L								
738+70	L								
738+80	R								
739+20-756+95	R								
751+70	R								
755+50	L								
763+65-764+17	L								
766+20-769+35	R								
769+30-794+10	L								
769+35-776+00	R								
771+70	L								
776+00-777+75	R								
777+75-794+10	R								
777+75-796+00	R								
777+85	R								
778+00	L								
787+60	L								
795+25-820+20	X								
795+25-820+20	L								
795+25-817+85	R								
808+45	L								
819+25-820+00	R								
820+20-849+90	L								
820+55-871+20	R								
820+60	R								
846+25	R								
849+90-888+30	L								
850+00	L								
852+55	R								
857+50	R&L								
861+40	R								
871+30	L								
877+60-875+30	R								
874+50	R								
875+30-901+40	R								
888+30	R								
888+30-901+70	L								
901+40	R								
901+60	L								
901+70	R								
901+70-905+15	L								
901+75-910+90	R								
906+20-907+50	R								
906+40	R								
907+50-928+20	L								
910+80	R								
910+90-911+45	R								

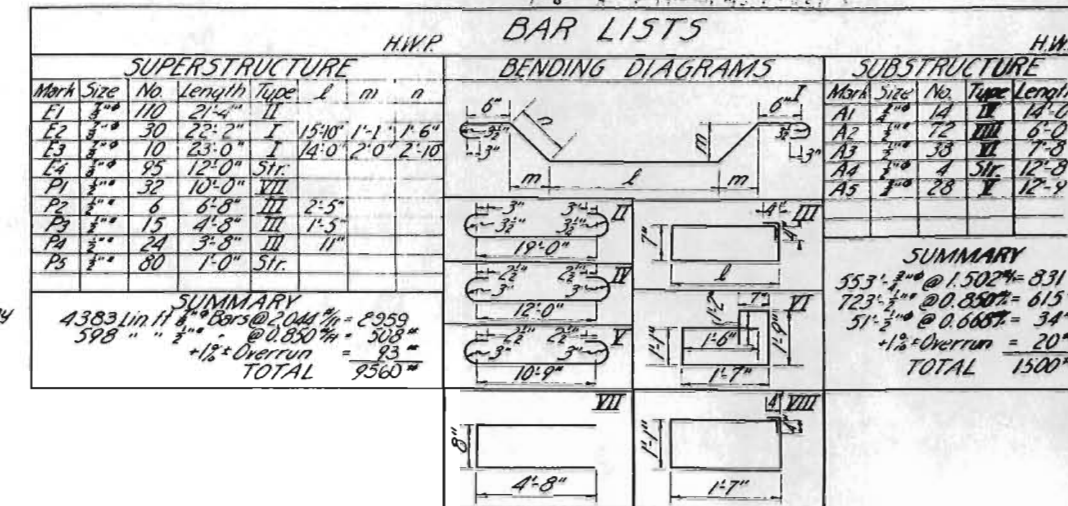
DETAIL OF JOINT FOR CONCRETE BOX CULVERT EXTENSION



Note:
Place one dowel to each U bar shown on Standard Concrete Box Culvert Plans.
Dowel bars are to be grouted in place with a cement grout composed of one part cement and two parts of clean well graded sand.

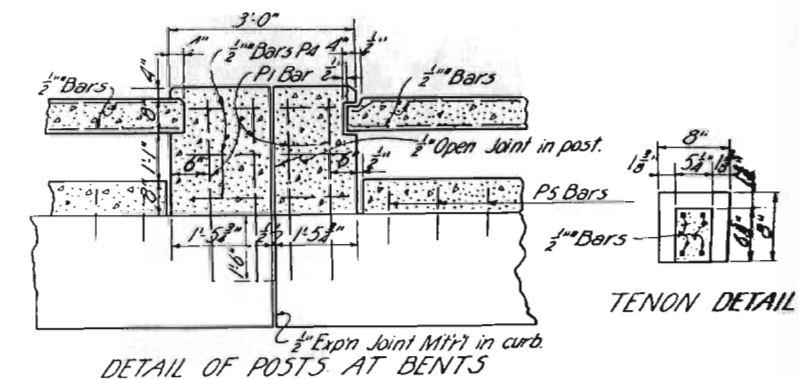
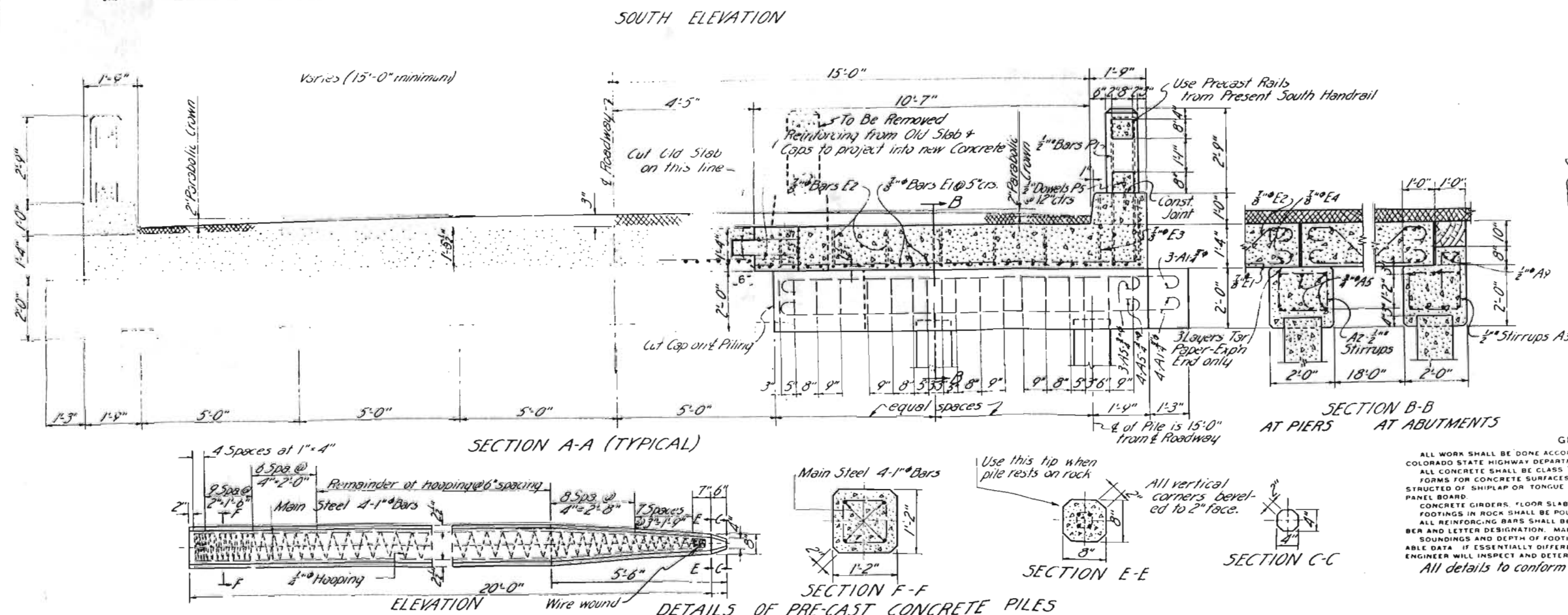
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246-D-R2	4	

Rev. 11-6-37 5.B.L.-(Alignment & Section)



SUMMARY OF QUANTITIES					HWP
NO.	ITEM	UNIT	SUBSTR.	SUPSTR.	TOTAL
11a	ALUMINUM ALLOY RING JOINTS OF PILING STA 1042	Jump Sum			•
46a	Class "A" Concrete	Cu Yd	11	.70	81
*47	Reinf. Steel (13" Overrun incl)	Lb.	1500	9560	11060
68	Precast Concrete Piling	Lin Ft.	240		240
42a	Untr. Bridge Timber	Mftbm		0.202	0.202
46r	Class "A" Conc. (Handrail)	Cu Yd		4	4
12d	Removing Guard Fence	Lin Ft.			200

* Does not include reinforcing in Piling.



LOADING DATA.
LIVE LOAD A. A. S. H. O. 1935 CLASS A M-1
DEAD LOAD ASSUMES 15 LBS. PER SQ. FT. ADDI-
TIONAL WEARING SURFACE WHICH INCLUDES THE 5
CONCRETE MONOLITHIC WEARING SURFACE SH-

DESIGNING DATA.
A.A.S.H.O. 1935 EXCEPT CONCRETE UNIT STRE
PER A.A.S.H.O. AUG. 1928.

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT
ALL CONCRETE SHALL BE CLASS "A"
FORMS FOR CONCRETE SURFACES EXPOSED IN THE FINISHED WORK SHALL BE CONSTRUCTED OF SHIPPLAP OR TONGUE AND GROOVE LUMBER S3S UNLESS FACING WITH PANEL BOARD
CONCRETE GIRDERS, FLOOR SLABS AND CURB SHALL BE POURED MONOLITHICALLY.
FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED.
ALL REINFORCING BARS SHALL BE DEFORMED, AND TAGGED WITH THE STATION NUMBER AND LETTER
SPACING AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE DATA IF ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED THE BRIDGE ENGINEER WILL INSPECT AND DETERMINE IF REDESIGN IS NECESSARY.

All details to conform to old structure.

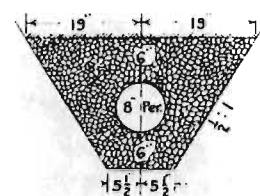
All details to conform to old structure.

COLORADO
STATE HIGHWAY DEPARTMENT
*WIDENING OF CONCRETE PILE
TREESTLE BRIDGE AT STA 794+
FROM 20' TO 30' ROADWAY*

Across *An Intermittent Stream*
Sta. 794+16.1-795+12
Near *AVONDALE* Sec. 9 T.25 S. R. 62.
Designed by *K.B.* Approved by *P.B.*
Made by *A.L.C.* Bridge Engineer
Checked by Date: *Oct 5 1937*

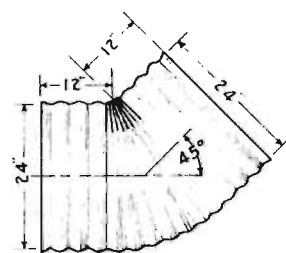
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOT SHEET
3	COLO.	246-D-R-2	6	

New Sheet 11-6-37 E.L.S.



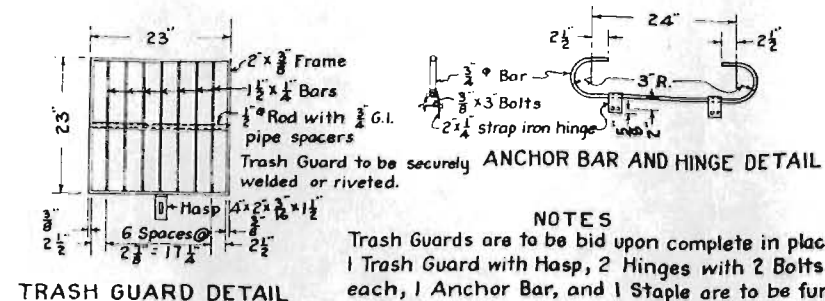
Crushed Rock, Slag or Gravel Backfill.

CROSS SECTION OF 8" PER. C.M.P. UNDERDRAIN



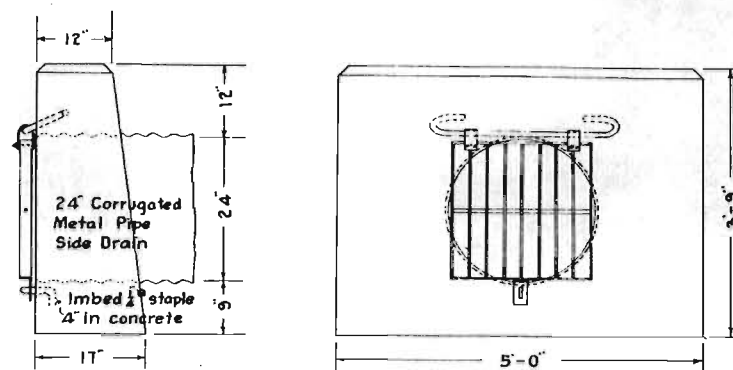
Cost of necessary connecting bands shall be included in contract price for 45° Elbows for 24" Corrugated Metal Pipe.

45° ELBOW



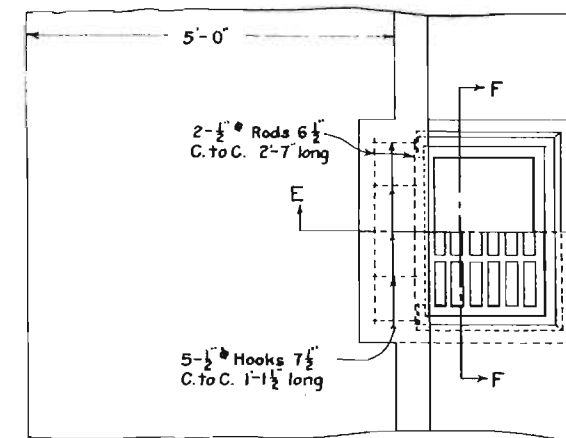
TRASH GUARD DETAIL

NOTES
Trash Guards are to be bid upon complete in place. 1 Trash Guard with Hasp, 2 Hinges with 2 Bolts each, 1 Anchor Bar, and 1 Staple are to be furnished and placed at each headwall.
0.6 cu. yd. Class "A" Concrete required for one hdwl.
Design data- 24" Type B Headwall (M-102-E) and 24" Siphon Trash Guard (M-123-A).

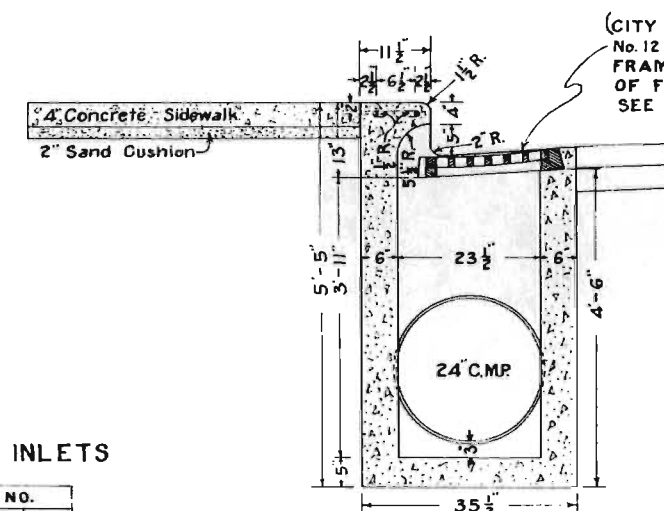


TRASH GUARD AND HEADWALL ASSEMBLY

SPECIAL HEADWALL WITH TRASH GUARD
2 Req'd. Lt. & Rt. Sta. 755+65

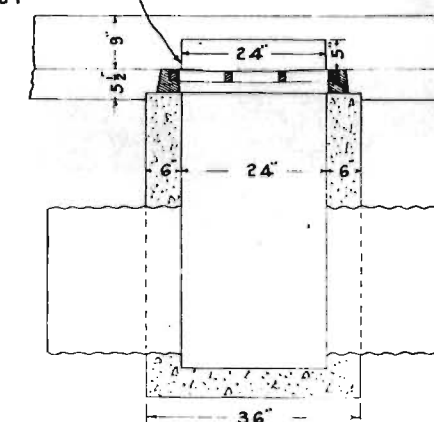


PLAN



SECTION E-E

(CITY OF DENVER) SPECIAL No. 12 INLET GRATING AND FRAME WITH BACK SIDE OF FRAME CUT OUT SEE STD. M-12-B



SECTION F-F

SPECIAL NO. 12 CONCRETE INLET

STATIONS		LIN. FT.	
		LEFT	RIGHT
756+73	756+87	14	
758+05	758+45	40	
760+08	760+23	21	
760+14	760+25		11
760+42	760+65		23
761+14	761+24		10
761+17	761+30	13	
761+50	761+60		10
762+43	762+58		15
762+58	762+70	12	
763+11	763+23	12	
763+30	763+50		20
764+12	764+60	48	
764+75	765+15		40
764+75	765+15	40	
765+40	766+20	80	
766+10	766+22		12
767+25	768+10	85	
767+27	767+42		15
768+94	769+27		32
TOTALS		365	188

STATIONS		LIN. FT.	
		LEFT	RIGHT
755+71	756+73	102	
755+71	758+05		244
756+87	758+05	123	
758+45	760+08	168	
758+45	760+14		14
760+25	760+42		17
760+29	761+17	78	
760+65	761+14		49
761+24	761+50		26
761+30	762+58	128	
761+60	762+43		83
762+58	763+30		72
762+70	763+11	41	
763+23	764+12	89	
763+50	764+75		130
764+60	764+75	20	
765+15	765+40	30	
765+15	766+10		90
766+20	767+25	105	
766+22	767+27		105
767+42	768+94		152
768+10	769+35	125	
769+27	769+35		18
TOTALS		1009	1060

STORM SEWER INLETS

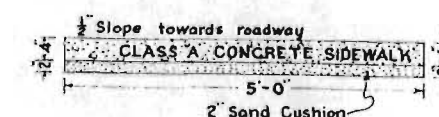
STATION	NO.	
	LEFT	RIGHT
757+90	1	1
758+60	1	
764+65	1	1
767+30	1	
TOTALS	4	2

SIDEWALK

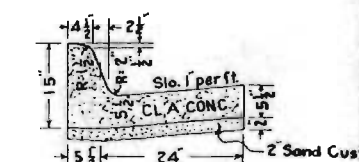
STATIONS		SQUARE FEET	
		LEFT	RIGHT
753+90	758+05	1055	
758+45	764+75	2990	3015
765+15	769+35	1855	2010
TOTALS		5900	5025

NOTES

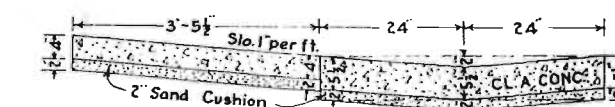
Curb is to be omitted and sidewalk lowered to connect with gutter, as shown, at driveways. Sidewalks are not required at street intersections.



SIDEWALK



CURB & GUTTER



SIDEWALK & GUTTER

DETAILS OF CURB, GUTTERS & SIDEWALKS

CUT SLOPE TREATMENT
The intersection of cut slopes with the existing ground shall be rounded in earth cuts, beginning 5 ft. outside the slope stakes and extending 5 ft. down the cut slope. Where the slope is less than 5 ft. reduce each of the above widths of slope treatment to the actual slope distance. Quantities involved in the slope treatment shall be included in Unclass. Excav.

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

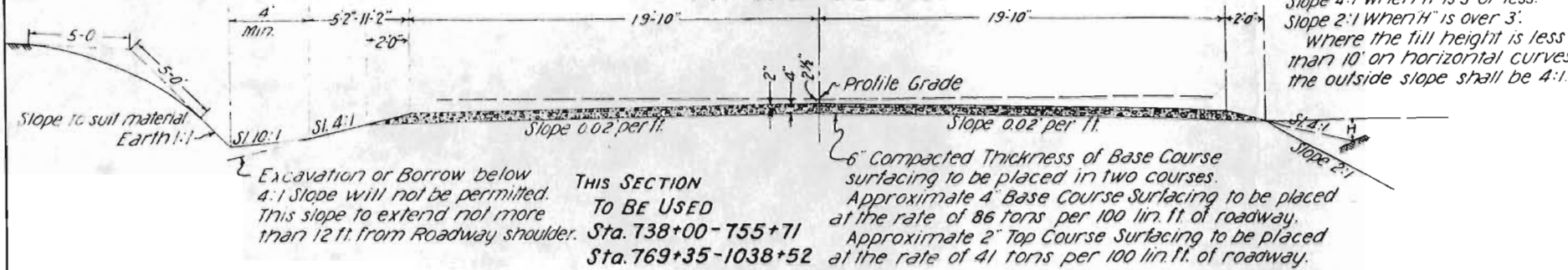
FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.
3	COLO.	246 D-R-2	2

Rev. 11-6-37 S.B.L.
Rev. 11-16-31 S.J.S.
Rev. 11-23-37 S.B.L. (Clearing & Grubbing No.)

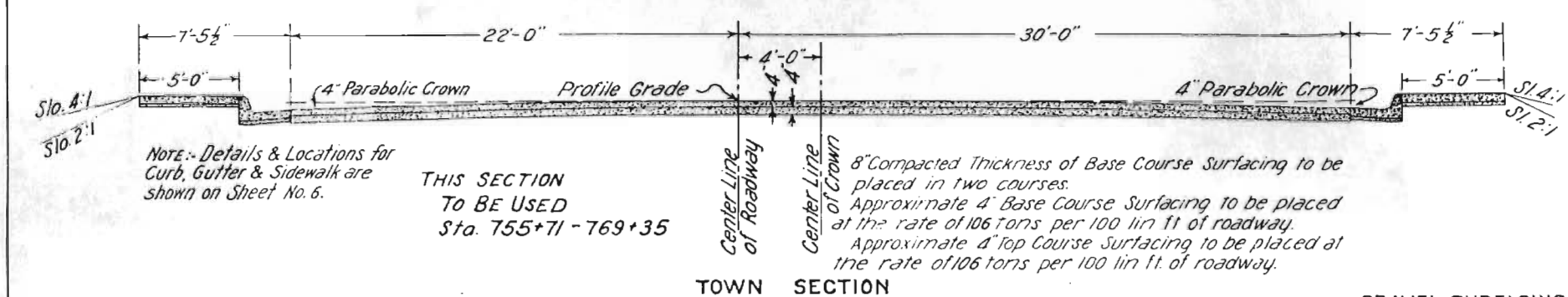
SUMMARY OF QUANTITIES

ITEM No.	DESCRIPTION	UNIT	ROADWAY		BRIDGE	T.
			39'-8"	52'-0"		
10-a-b	Clearing & Grubbing entire Project	Lump Sum	10 a	10 b		
11-a	Removing & Altering portions of present Br. at Sta. 794+	"				
11-b	Removal of 17 structures	"				
11-c	Remove Sidewalk	Sq. Ft.		35		
11-d	Remove headwall & cut keyways	Each	6			
11-e	Removing & resetting mail boxes	Lump Sum				
12-a	Removing Fence	Lin. Ft.	33,450	350		
12-b	Removing guard fence	"	300			200
12-c	Removing & Rebuilding Fence	"	8,000			
12-d	Removing & Rebuilding Ornamental Fence	"	55	405		
12-e	Removing & Rebuilding Rock Fence, Sta. 769+	Lump Sum				
13-c	Unclassified Excavation	Cu. Yd.	106,800	2200		
14-a	Dry Rock Excavation (Struct.)	Cu. Yd.	175	175		
14-b	" Common "	"	700	700		
14-c	Wet Rock "	"	50	50		
14-d	" Common "	"	175	175		
18-a	Station-Yard Overhaul	Sta. Yd.	255,300	1700		
18-b	Yard-Mile Overhaul	Yd.-Mi.	3,800			
26-a	Gravel or Crushed Rock Surfacing	Ton	36,700	3100		
26-c	Overhaul of Surfacing	Ton-Mi.	12,930	3270		
42-a	Untreated Bridge Timber	M Ft 8M				0.3
46-a	Class 'A' Concrete	Cu. Yd.	360			81
46-b	Class 'B' Concrete	"	10			
46-f	Class 'A' Concrete (Handrails)	"				4
47	Reinforcing Steel	Lbs.	33,500			11,100
53-a	15" Cor. Metal Culvert Pipe	Lin. Ft.	134			
53-b	18" " " "	"	802			
53-c	24" " " "	"	398	388		
53-cx	45" Elbows for 24" Cor. Metal Pipe	Each		8		
53-e	36" Cor. Metal Culvert Pipe	Lin. Ft.	60			
55-b	18" " " Siphon "	"	324			
55-c	24" " " " "	"	112			
59	Relaying pipe	"	596	2353		
63-a	Rip Rap	Cu. Yd.	15			
62-a	Pre-cast Concrete Piling	Lin. Ft.				240
72-a	8" Perforated C.M.P. Underdrain	"	985			
74-x	Timber Guard Posts	Each	147			
76-c	Barbed Wire Fence - Metal Posts	Lin. Ft.	43,760	240		
76-f	Combin. " " "	"	310			
76-g	Barbed Wire gates	Each	31			
76-h	Driveway gates	"	9			
81-a	Project Markers	"	1			
81-b	Right of Way Markers	"	29	2		
82	Cattle Guards (16" Roadway)	"	2			
85-b	Trash guards for 18" siphons	"	6			
85-c	" " " 24" "	"	2			
102	Blading & Grading Detour	Mi.	1			
37c	Sand Cushion	Cu. Yd.		130		
73b	Concrete Gutter	Lin. Ft.		553		
73c	Conc. Combin. Curb & Gutter	"		2069		
86	Conc. Sidewalk	Sq. Ft.		10,925		
110 x	Special Sewer Inlets	Each		6		
85 x	Trash Guards for 24" Side Drains	"	2			
101 x	Salvaging & Stock-piling Oil Surfacing	Cu. Yd.	2600	200		
92	Obliterating old road	FORCE ACCOUNT				
	Detour Bridge repairs	WITH FED. AID				
FORCE ACCOUNT (NOT RECEIVING FED. AID)						
	Remove gas pumps & valves STA. 760+	Lump Sum				
	Remove fruit stands, Sta. 778+824, 814+	"				
	Remove & reset Monument, STA. 925+	"				
	Remove scales " 937+	"				
	Remove Conc. Reservoir " 942+	"				
	Remove Farm House & Cistern-989+	"				
	Remove Scales STA. 763+	"				
	Remove Transformer Rack Sta. 758+	"				
	Remove gas pumps STA. 764+; " 765+	"				

TYPICAL SECTIONS



TYPE 'A' SECTION



TOWN SECTION

R.O.W. MARKERS

STATIONS	SIDE	No.
738+00	R&L	2
768+30	L.	2
769+35	R.	2
791+65	R&L	2
819+20	R.	1
819+95	R.	1
820+00	L.	1
821+45	L.	1
862+30	R&L	2
888+10	L.	1
888+40	R.	1
916+90	R&L	2
941+30	R.	1
941+45	L.	1
967+90	R.	1
968+00	L.	1
995+70	R&L	2
1021+95	R&L	2
1029+70	R.	1
1037+60	R.	1
1038+52	R&L	2
1032+45	R.	1
TOTAL		31

GRAVEL SURFACING FOR TOWN SECTION ROAD APPROACHES

STATIONS	SIDE	TONS
758+05-758+45	L&R	60
760+20	R.	10
761+19	R.	10
761+55	R.	10
762+50	R.	10
764+12-764+60	L.	10
764+75-765+15	L&R	60
765+40-766+20	L.	20
767+25-768+10	L.	20
TOTAL		210

MAIL BOXES MOVE & RESET

LOCATION	SIDE	No.
855+10	L.	2
871+05	L.	2
875+70	L.	1
888+80	L.	1
901+40	L.	2
906+80	L.	1
911+45	L.	1
920+40	L.	1
928+00	L.	2
937+70	L.	1
941+40	L.	1
TOTAL		15

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1937.

All quantities on preliminary plans are to be considered approximate only.

All Roadway Excavation required to construct this Project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, either noted on Profile as "Borrow" or on List of Structures as "Embankment," are to be classified and paid for as "Unclassified Excavation." These quantities are to be staked as part of the original excavation at locations indicated on the plans.

Slope stakes, beyond the limits of the Typical Section as shown, are subject to change by the Engineer to fit Embankment requirements actually met in construction.

All poles encroaching on construction are to be moved by owners.

Except as otherwise noted on the plans, Overhaul will be paid for as measured along the centerline of the Project.

All side approach roads to the Project shall be gravel surfaced with a 4" thickness of Gravel or Crushed Rock Surfacing extending approximately 30 feet from edge of Highway. Estimated tonnage of Surfacing Material required in this operation is shown in List of Structures.

The Detour will be over State Highway No. 96, as shown on the sketch map. Through traffic will be diverted over Detour during construction.

The requirements of local traffic along the Project during construction shall be adequately provided for by the Contractor at his expense. Also the Contractor shall, at his own expense construct & maintain in safe condition all temporary approaches to and crossings of intersecting roads.

GUARD POSTS

STATIONS	DESCRIPTION	SIDE	NUMBER
793+50-794+13	Standard at Bridge	R&L	10
795+22-795+85	" " Structure	R&L	10
820+85	" " "	R	8
946+02	" " "	R	4
982+20	" " "	R&L	8
992+30	" " "	R&L	8
995+10	" " "	R&L	8
1001+00	" " "	R&L	8
1006+00	" " "	R&L	8
1022+25	" " "	R&L	8
1031+80-1038+49	20' C-C & Std. at Br.	R	37
1032+20-1036+20	20' C-C	L.	21
1037+40-1038+49	20' C-C & Std. at Br.	L.	9
TOTAL			147

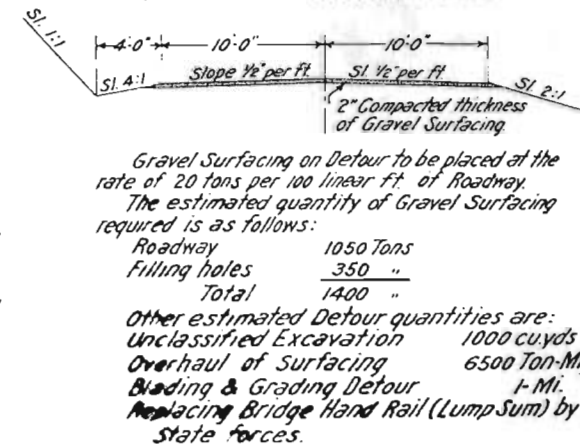
GRAVEL SURFACING PLAN

STATIONS	WIDTH	TONS	OVERH'L	PIT LOCATION
738+00-755+71	39'-8"	2310	3120	400 Left Sta. 881+50
755+10-769+35	52'-0"	3100	3270	" " " " "
769+35-918+75	39'-8"	17,490	2870	" " " " "
918+75-1038+52	39'-8"	15,500	440	275' " " 958-969
Detour	20'-0"	1,400	6,500	400' " " 881+50
TOTAL		39,800	16,200	

Selected Material as called for on the plans is estimated to be available from the Right of Way within free haul distance.

It is estimated that Gravel or Crushed Rock Surfacing for this project is available from the vicinity of pits shown in the table. Estimated quantities involved in this operation are as shown.

TYPICAL DETOUR SECTION



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246 D-R-2	16	

New Sheet 11-6-37, H.W.M.

STA. 738+00-
Reqd Project Marker

STA. 738+00-738+60-
Reqd 15 cu yds uncl. excav.
for ditch change, Lt.

STA. 738+70-
Reqd 18'x24' C.M.P. side dr. &
15 cu yds uncl. excav. for Rd
approch L. Also 18'x20' C.M.P. for
ditch.

N.E. 4 SEC. 8, T. 21 S., R. 62 W.

NOTE: All pole lines encroaching on construct-
ion are to be moved by owners.
Right of Way Markers are tabulated on Sheet No. 2.
Fencing Requirements " " " " " 4.
Timber Guard Posts " " " " " 2.
Selected Material Requirements are noted on
Plan & Profile Sheets.

NOTE: Stations and Details of Combin.
Curb & Gutter, Gutter, Storm Sewer Inlets,
and Concrete Sidewalk are shown on
Sheet No. 6.

STA. 755+65-769+45-
Reqd to relay 1258 lin. ft. of 24"
C.M.P. side drain and extend 130
lin. ft. with 4-45° elbows. Also spec.
hdwall at inlet & Type B' hdwall at
outlet, L. For spec. hdwall see Sheet 6.

STA. 755+50-
Reqd 10 cu yds embank. for Rd
approch & 24'x36 C.M.P. side dr. L.

STA. 764+40-
Remove gas pumps from R.O.W.
Force Acct. L., No Fed. Aid.

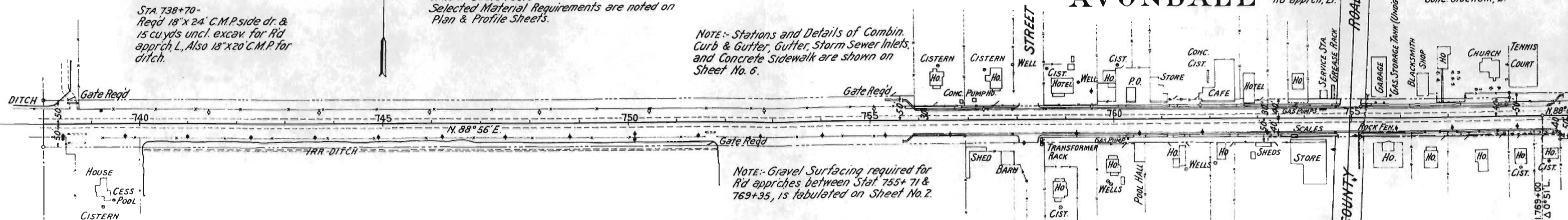
STA. 765+50-
Remove gas pumps from R.O.W.
L., Force Acct. No Fed. Aid.

STA. 761+19-
Reqd 10 cu yds embank. for
Rd approch, Lt.

STA. 762+50-
Reqd 20 cu yds embank. for
Rd approch, Lt.

STA. 766+88-
Remove 35 sq. ft. of
Conc. sidewalk, L.

AVONDALE



NOTE: Gravel Surfacing required for
Rd approaches between Stat. 755+71 &
769+35, is tabulated on Sheet No. 2.

STA. 738+80-
Reqd 10 cu yds uncl. excav
for Rd approch. Relay 18'x40'
C.M.P. side drain, R.

STA. 740+00-751+85-
Reqd 225 cu yds uncl. excav
for ditch change, Rt.

STA. 751+70-
Reqd 55 cu yds embank. for
Rd approch, R. & 24'x32' C.M.P.
side dr. Relay 24'x20' C.M.P. in
irrig. ditch.

STA. 755+65-769+45-
Reqd to relay 1095 lin. ft. of 24"
C.M.P. side drain and extend 290
lin. ft. with 4-45° elbows. Also spec.
hdwall at inlet & Type B' hdwall at
outlet, R. For Spec. Hdwall see Sheet 6.

STA. 758+45-
Remove transformer rack from
R.O.W. Force Acct. No Fed. Aid.

STA. 760+25-
Remove gas pump & intake valve
from R.O.W. Force Acct. No Fed. Aid.

STA. 763+45-
Reqd 25 cu yds embank.
for Rd approch, R.

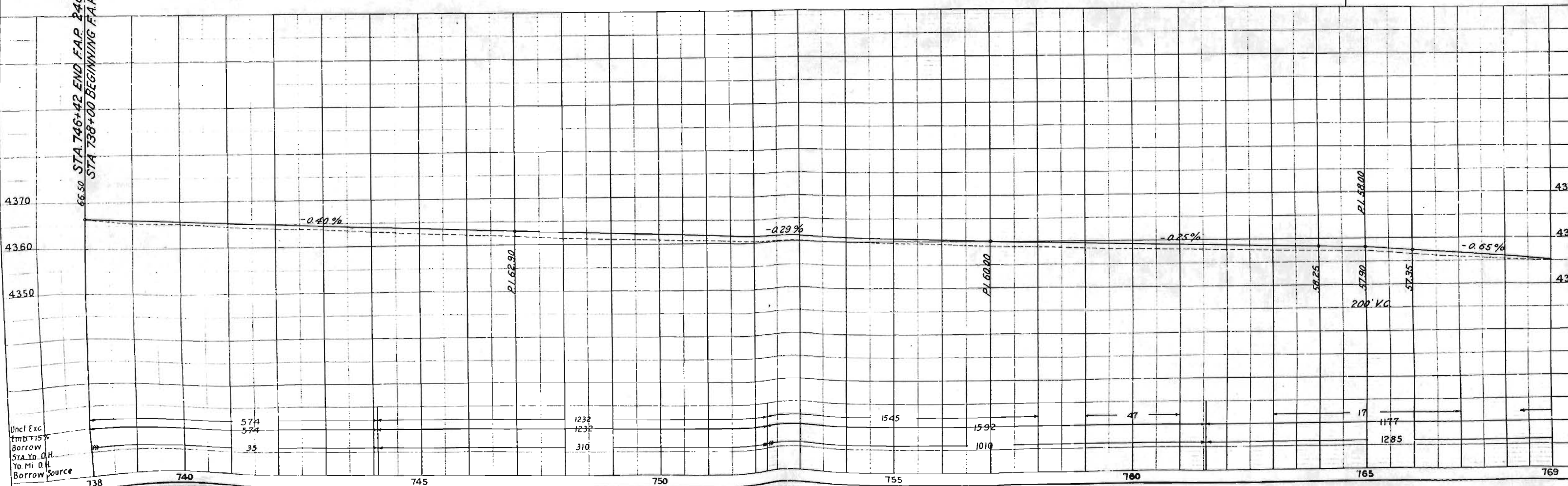
STA. 763+85-
Remove scales from R.O.W.
Force Acct. No Fed. Aid.

STA. 765+15-766+10-
Remove and rebuild
rock fence, R.

STA. 765+20-
18" Siphon to remain
in place.

CLEARING & GRUBBING
STA. 767+50-769+35 - TREES ON RIGHT

STA. 746+42 END F.A.P. 246 F
STA. 738+00 BEGINNING F.A.P. 246 D-R-2



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246 D-R-2	17	

REV. 11-6-37 - S.B.L.

STA. 794+161-795+192 -
5-Sp. @ 20' Conc. Pile Br. in place.
Reqd alterations as per details
on Sheet No. 5

STA. 787+60 -
Reqd 30 cu yds embank for Rd apprch
& 18"x28' C.M.P. side drain, L.T.
Remove 15"x20' C.M.P.

STA. 784+00-789+15 -
Reqd 8"x515' Perforated
C.M.P. underdrain, 21' L. as per
details on Sheet No. 6.

STA. 778+20 -
Reqd 55 cu yds embank for Rd apprch,
& 24"x50' C.M.P. side drain, L.T.
Remove 15"x61' C.M.P.

STA. 771+70 -
Reqd 55 cu yds embank for Rd apprch,
& 24"x32' C.M.P. side drain, L.T.
Remove 18"x22' C.M.P.

STA. 778+20 -
Remove fruit stand from R.O.W.
Force Acct. No Fed. Aid.

STA. 777+85 -
Reqd 55 cu yds embank for Rd apprch, R.
& relay 24"x20' C.M.P. side drain & extend
12 ft.

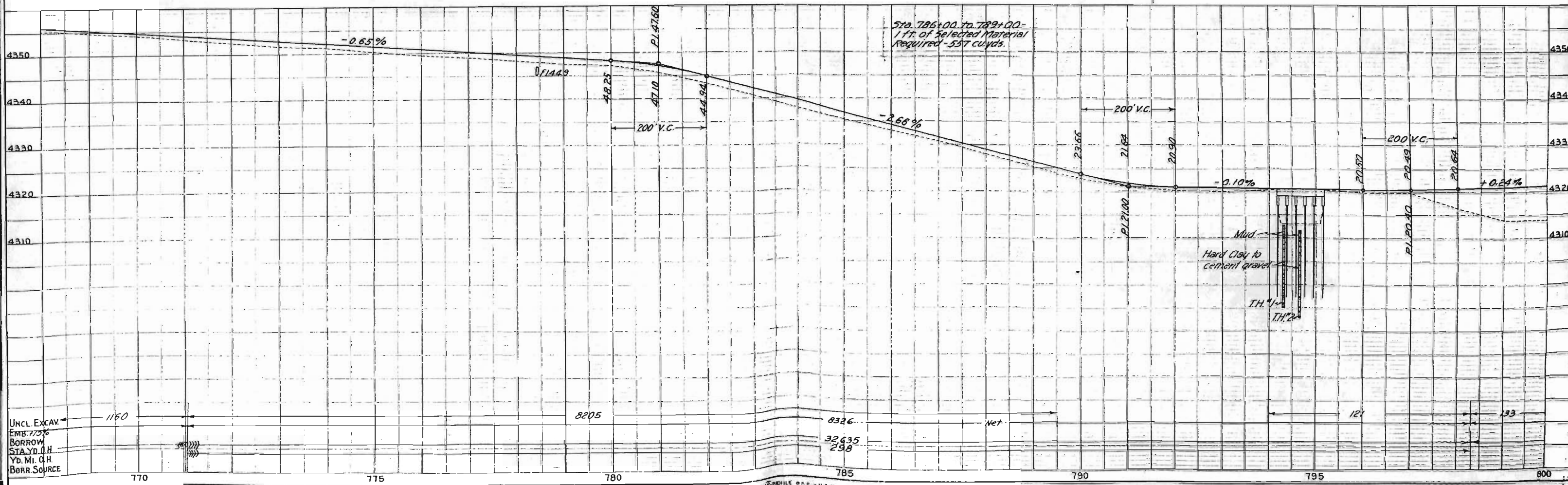
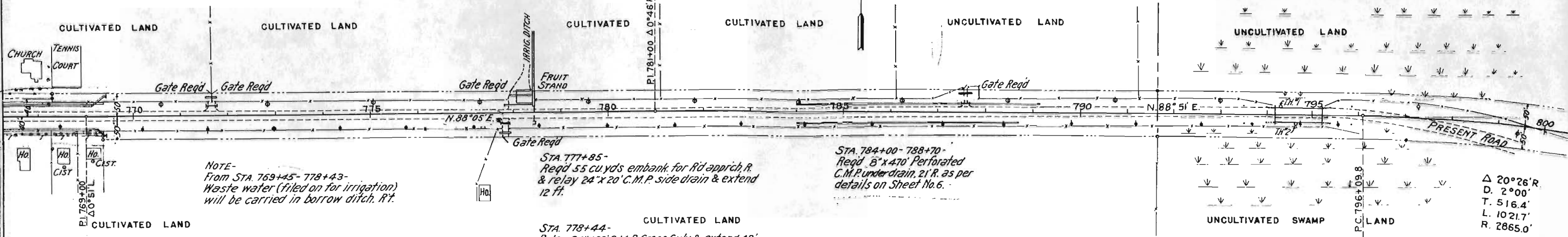
STA. 778+44 -
Relay 24"x32' C.M.P. Cross Culv. & extend 48'.
Also reqd 10 cu yds uncl. excav for outlet.
Intercepting headwall.

STA. 784+00-788+70 -
Reqd 8"x470' Perforated
C.M.P. underdrain, 21' R. as per
details on Sheet No. 6.

NOTE -
From STA. 769+45-778+43 -
Waste water (filed on for irrigation)
will be carried in borrow ditch, R.T.

N.W. 1/4 SEC. 9 T. 21 S. R. 62 W.

N.E. 1/4 SEC. 9



UNCL. EXCAV.
EMB. 7.5%
BORROW
STA. 770+00
Yd. M. O.H.
BORR. SOURCE

PLATE 1 - PROFILE ONE MILE STANDARD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246D-R-2	18	

Rev. 11-6-37-S.B.L.

N.E. 1/4 SEC. 9

N.W. 1/4 SEC. 10

S.W. 1/4 SEC. 10

S.E. 1/4 SEC. 9

STA. 808+45-
Reqd 20 cu yds uncl. excav for Rd apprch.
Relay 18"x20" C.M.P. side drain from rt to
Lt side and extend 6 ft.

Δ 8°14' L.
D. 1°00'
T. 412.4'
L. 823.3'
R. 5730'

Δ 20°26' R.
D. 2°00'
T. 516.4'
L. 1021.7'
R. 2865.0'

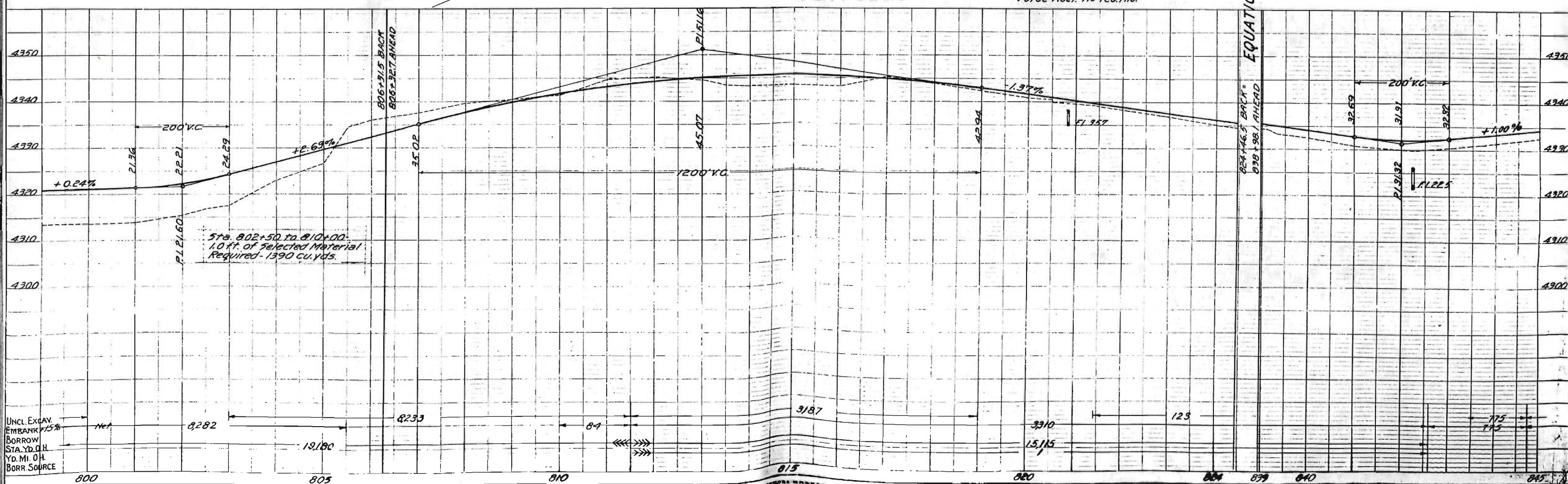
STA. 818+90-
Reqd 35 cu yds embank for Rd apprch. Rt.
& 18"x40" C.M.P. side drain.

STA. 820+25-
Reqd 75 cu yds embank for Rd apprch. Rt.
Relay 15"x40" C.M.P. side drain, Rt.

STA. 820+85-
Remove headwall & cut keyway;
extend 2'x2' C.B.C. 16' L., with
1-std Hdwl & 10 cu yds rip rap for
outlet. Also 10 cu yds uncl. excav
for inlet, & 5 cu yds selected mat'l.

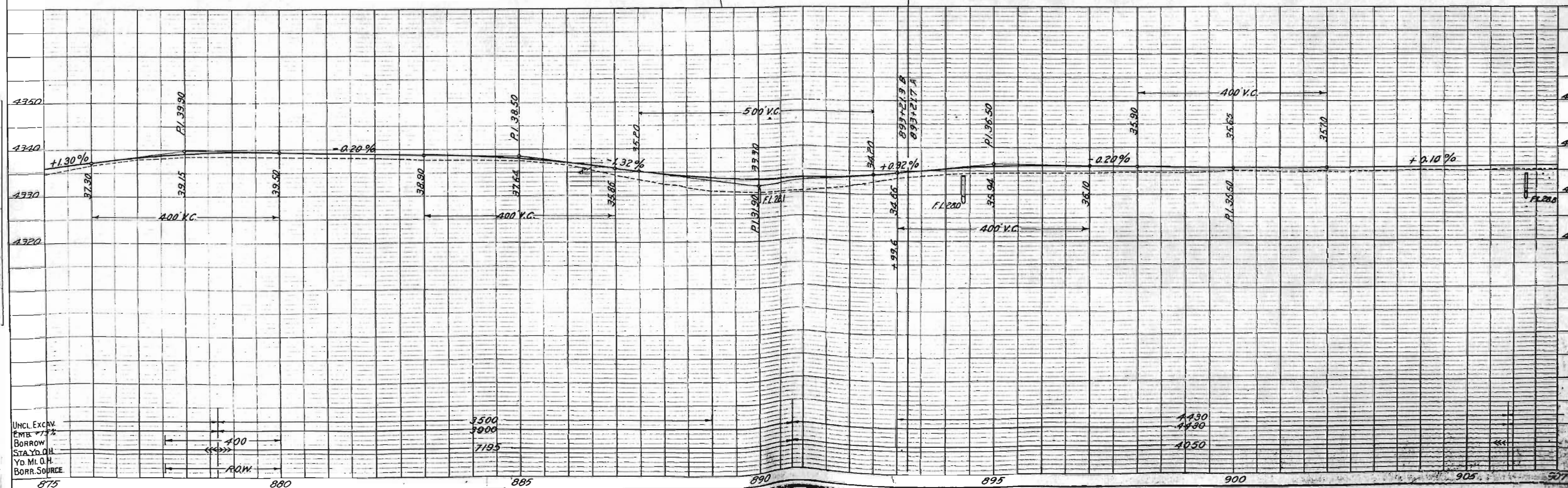
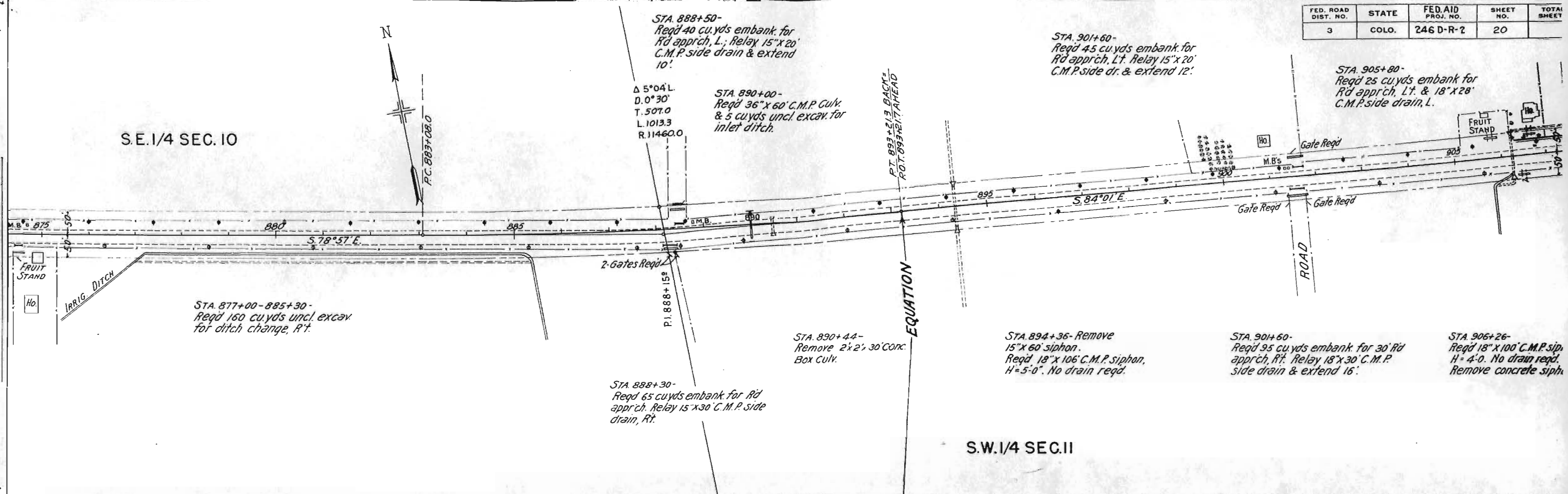
STA. 821+00-
Reqd 20 cu yds embank for Rd apprch. Rt.
STA. 821+00-
Remove Fruit stand from R.O.W. by
Force Acct. No Fed. Aid.

STA. 842+26-
Remove headwalls & cut keyways;
Extend 3'x3' C.B.C. 10' L.; 10' R., with
2 std Hdwl's & 25 cu yds uncl. ex-
cav. for inlet.



UNCL. EXCAV.
EMBANK +15%
BORROW
STA. YD. 0.1
YD. MI. 0.1
BORR. SOURCE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
3	COLO.	246 D-R-2	20	



S.W. 1/4 SEC. 11

S.E. 1/4 SEC. 11

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	SHEET TOTAL
3	COLO.	246 D-R-2	21	

STA. 906+26-912+84-
Reqd 130 cu yds uncl. excav
for ditch, L't.

STA. 906+65-
Reqd 30 cu yds embank. for
Rd apprch and 18"x24" C.M.P.
side drain for irrig. ditch, L't.
Also 18"x28" C.M.P. side drain

STA. 912+84- Remove present
15"x84" C.M.P. siphon.
Reqd 18"x100" C.M.P. siphon,
H=3.0'. No drain reqd.

STA. 925+70-
Remove and reset "FT. REYNOLDS"
Monument. Force Acct. No Fed
Aid.

STA. 928+35-
Reqd 30 cu yds embank. for
Rd apprch & 18"x28" C.M.P. side
dr., L. Remove 15"x20" C.M.P. side
drain. Relay at Sta. 938+10.

STA. 928+53-
Reqd. Remove Siphon.

STA. 928+50-941+20-
Reqd 230 cu yds uncl. excav
for ditch change, R't.

STA. 933+55-
Reqd 25 cu yds embank. for Rd
apprch & 18"x28" C.M.P. side dr., R't.
Relay 18"x20" C.M.P. side drain in
irrig. ditch.

STA. 906+40-
Reqd 25 cu yds embank.
for Rd apprch, R't. Also
18"x28" C.M.P. side drain.
STA. 910+80-
Reqd 10 cu yds embank. for
Rd apprch, R't. Relay 15"x20"
C.M.P. side drain & extend 8'.

STA. 911+55-
Reqd 25 cu yds embank. for
Rd apprch, R't. Relay 15"x20"
C.M.P. side drain & extend 10'.

STA. 912+70-
Reqd 25 cu yds embank. for
Rd apprches R. & L. Also 18"x28"
C.M.P. side drains, R. & L.
Relay 18"x20" C.M.P. side drain
from R't in irrig. ditch, L't.

STA. 912+84-919+62-
Reqd 110 cu yds uncl. excav.
for ditch change, R't.

STA. 917+15-
Reqd 25 cu yds embank. for Rd
apprch & 18"x28" C.M.P. side dr., R.
Relay 15"x20" C.M.P. side drain in
irrig. ditch.

STA. 919+70-
Reqd 25 cu yds embank. for
Rd apprch & 18"x26" C.M.P.
side drain, R't. Relay 18"x20" C.M.P.
side drain in irrig. ditch.

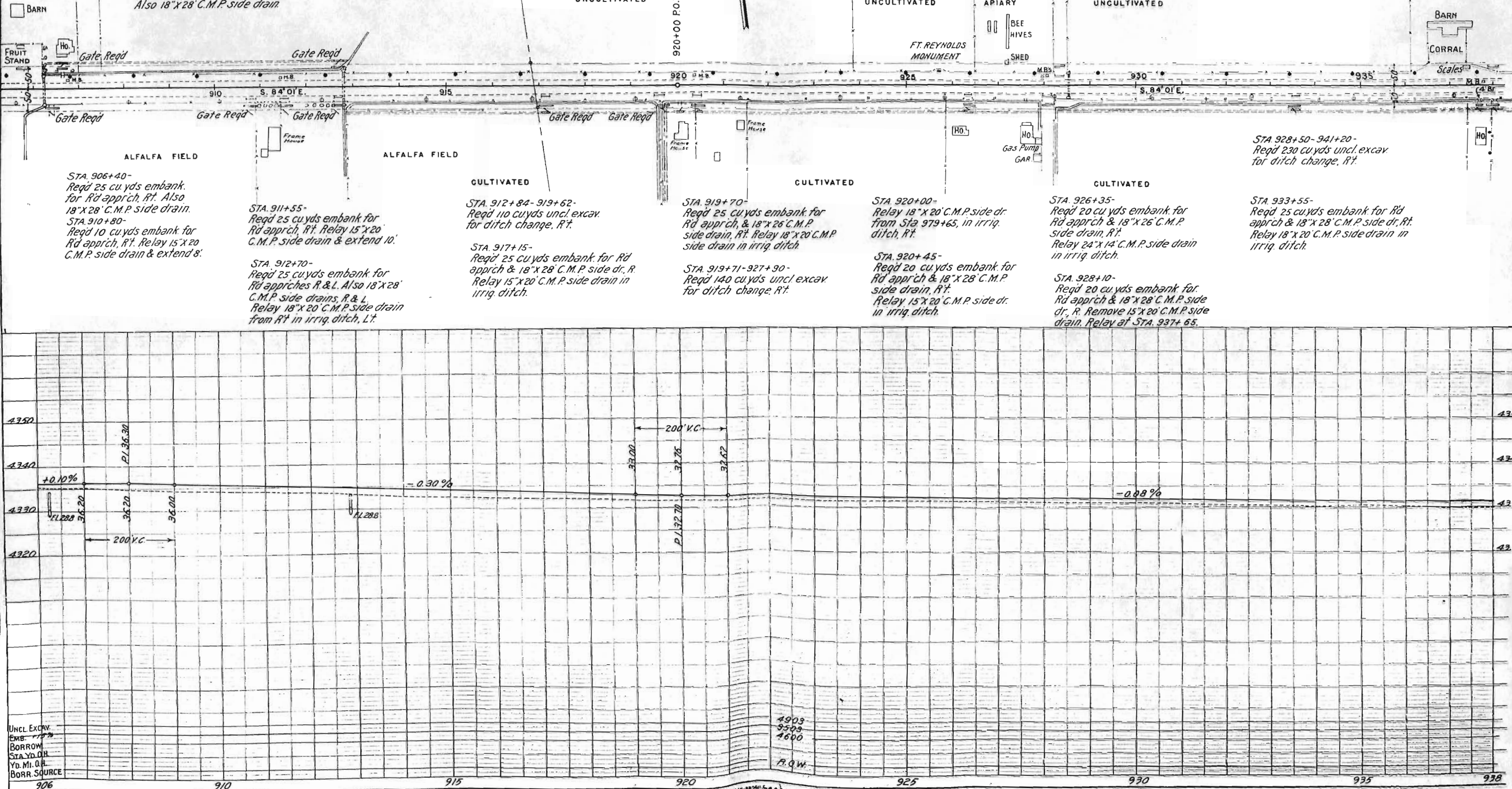
STA. 919+71-927+90-
Reqd 140 cu yds uncl. excav
for ditch change, R't.

STA. 920+00-
Relay 18"x20" C.M.P. side dr.
from Sta. 919+65, in irrig.
ditch, R't.

STA. 920+45-
Reqd 20 cu yds embank. for
Rd apprch & 18"x28" C.M.P.
side drain, R't.
Relay 15"x20" C.M.P. side dr.
in irrig. ditch.

STA. 926+35-
Reqd 20 cu yds embank. for
Rd apprch & 18"x26" C.M.P.
side drain, R't.
Relay 24"x14" C.M.P. side drain
in irrig. ditch.

STA. 928+10-
Reqd 20 cu yds embank. for
Rd apprch & 18"x28" C.M.P. side
dr., R. Remove 15"x20" C.M.P. side
drain. Relay at STA. 937+65.



UNCL. EXCAV.
EMB. 177.7
BORROW
STA. 90.00
Yd. M. O. H.
BORR. SOURCE

4903
9503
4600

A.O.W.

SE 1/4 SEC. 11

STA. 937+35-
Remove platform scales
from R.O.W. Force Acct.
No Federal Aid.
STA. 938+00-
Reqd 30 cu.yds embank for
Rd appr. & 18"x26" C.M.P. side dr., L.

Δ 3°14' L.
D. 1°00'
T. 1612'
L. 3273'
R. 5730'

STA. 938+65-
Rem. C.M.P. side drain
& headwall, L.

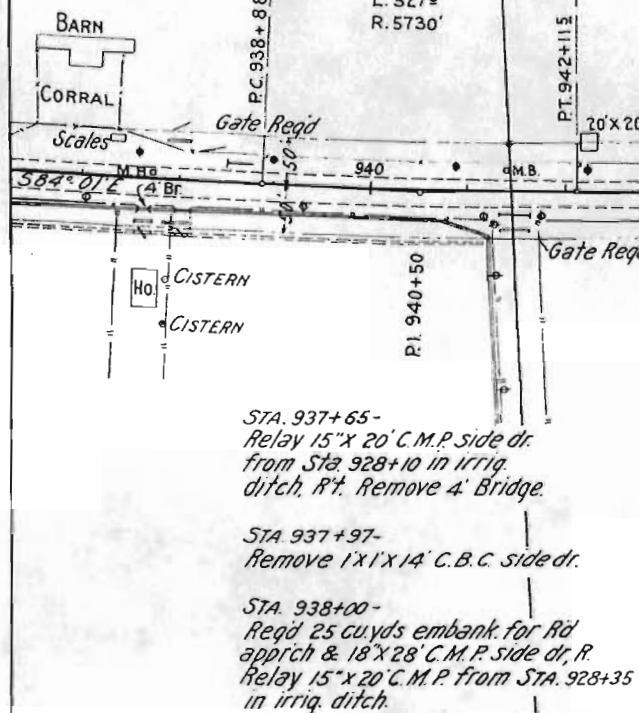
STA. 942+25-
Remove conc. reservoir
from R.O.W. Force acct.
No Federal Aid.

SW 1/4 SEC. 12
T. 21 S R. 62 W.

N

STA. 957+85-
Reqd 45 cu.yds embank
for Rd apprch, L.T.

STA. 967+80-
Reqd 25 cu.yds embank
for Rd apprch and 18"x28"
C.M.P. side drain, L.T.



STA. 941+50-
Reqd 25 cu.yds embank for Rd
apprch. Relay 15"x30" C.M.P. side
drain, R.T.

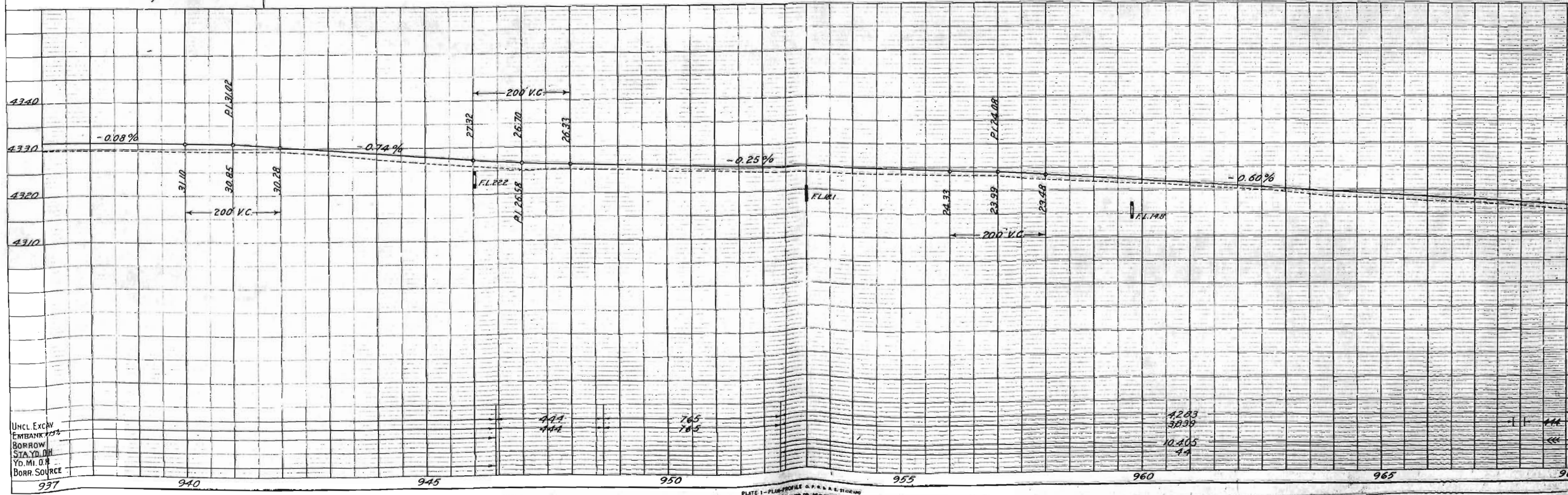
STA. 946+02-
Remove Hdws & cut keyways;
Extend 2"x2" C.B.C. 15' L, 5' R.
with 2 std Hdws. Also 10 cu.yds
uncl excav for inlet.

STA. 953+00-
Remove headwalls & cut keyways;
Extend 2"x2" C.B.C. 14' L, 12' R, with
2 std Hdws. Also 30 cu.yds uncl.
excav for inlet.

STA. 954+50-
Reqd 25 cu.yds embank for
Rd apprch and 18"x28" C.M.P.
side drain, R.T.
Remove 15' x 20' C.M.P.

STA. 959+80-
Remove Hdws & cut keyways;
Extend 2"x2" C.B.C. 15' L, 10' R.
with 2 std Hdws. Also 60 cu.
yds uncl excav for inlet & outlet.

STA. 968+15-
Reqd 25 cu.yds uncl excav
for Rd apprch and 18"x40"
C.M.P. side drain, R.T. Also
std cattle guard, R.



Uncl. Excav
Embankment
Borrow
Sta. Yd. D.H.
Yd. M. D.H.
Borr. Source

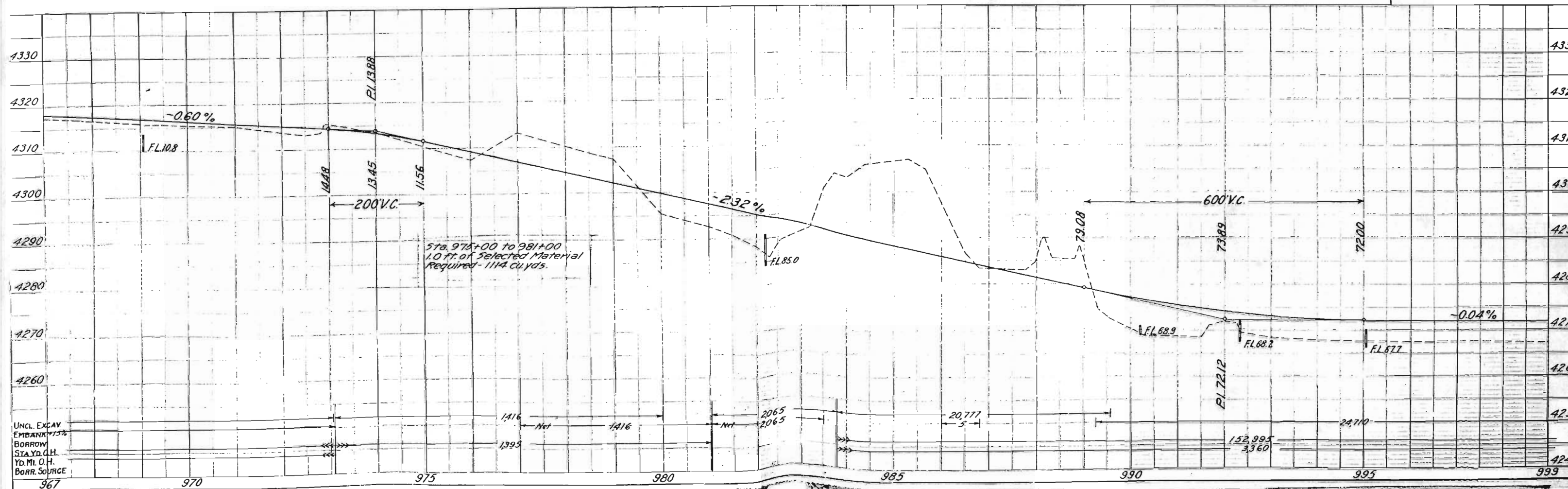
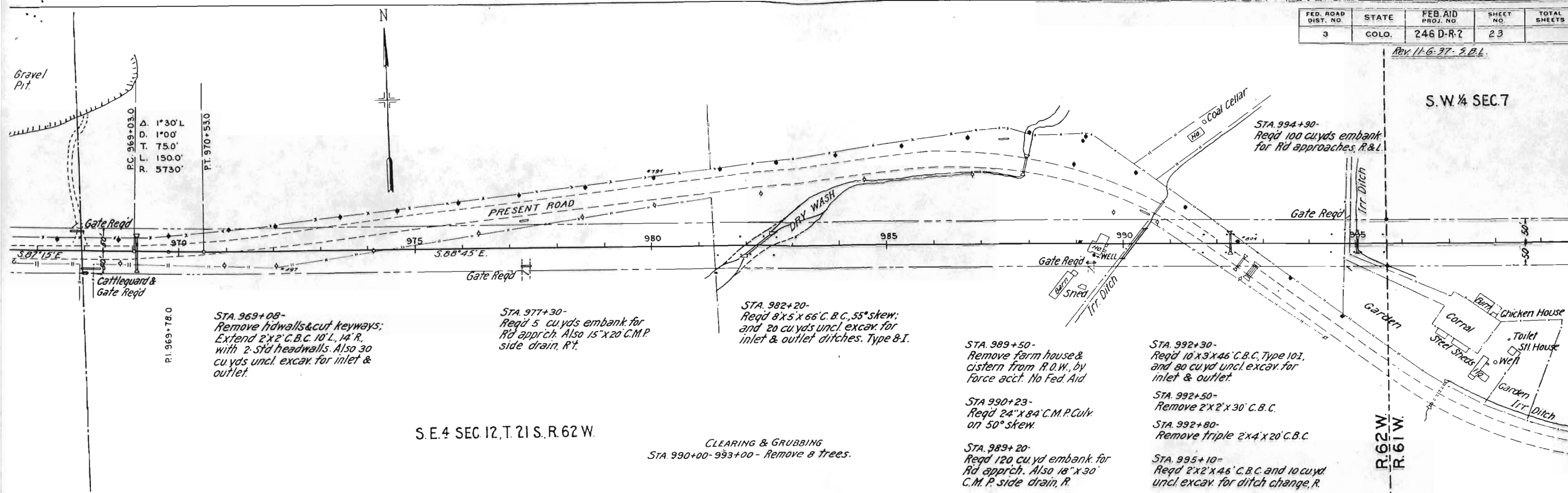
PLATE 1 - PLAN PROFILE OF R.O.W. & SIDE DRAIN

PLATE 1 - PLAN PROFILE OF R.O.W. & SIDE DRAIN

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246 D-R-2	22	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246 D-R-2	23	

Rev. 11-6-37 S.B.L.



S.W. 4 SEC. 7, T. 21 S., R. 61 W.

STA. 1022+00-
Reqd 115 cu yds embank for
Rd approaches R. & L. Also 18"x30"
C.M.P. side drain, R't.

STA. 1022+25-
Reqd 2'x2'x48' C.B.C.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246-D-R-2	24	

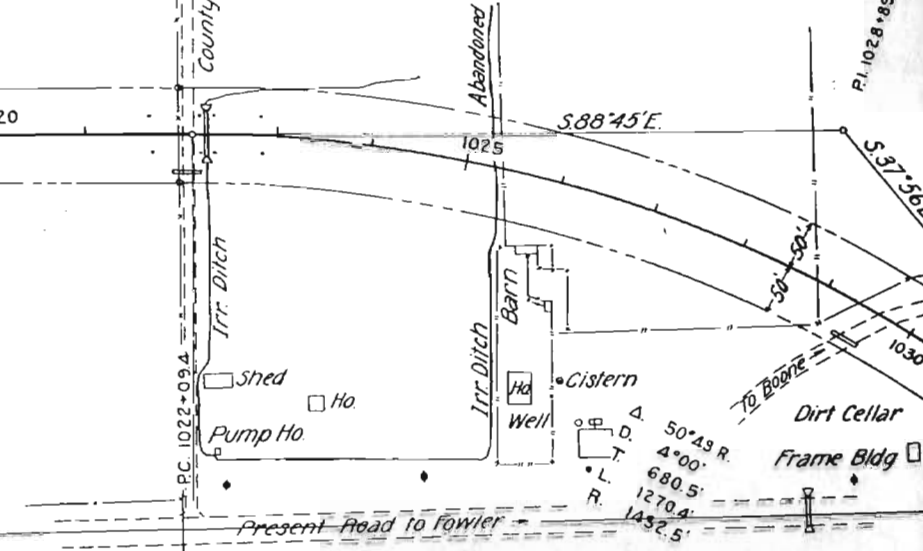
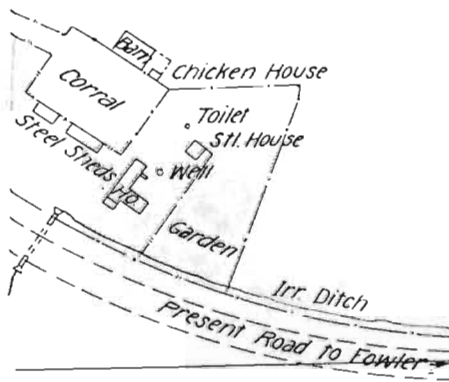
S.E. 4 SEC. 7

STA. 1001+00-
Reqd 2'x2'x46' C.B.C. &
10 cu yds uncl. excav. for inlet &
outlet.

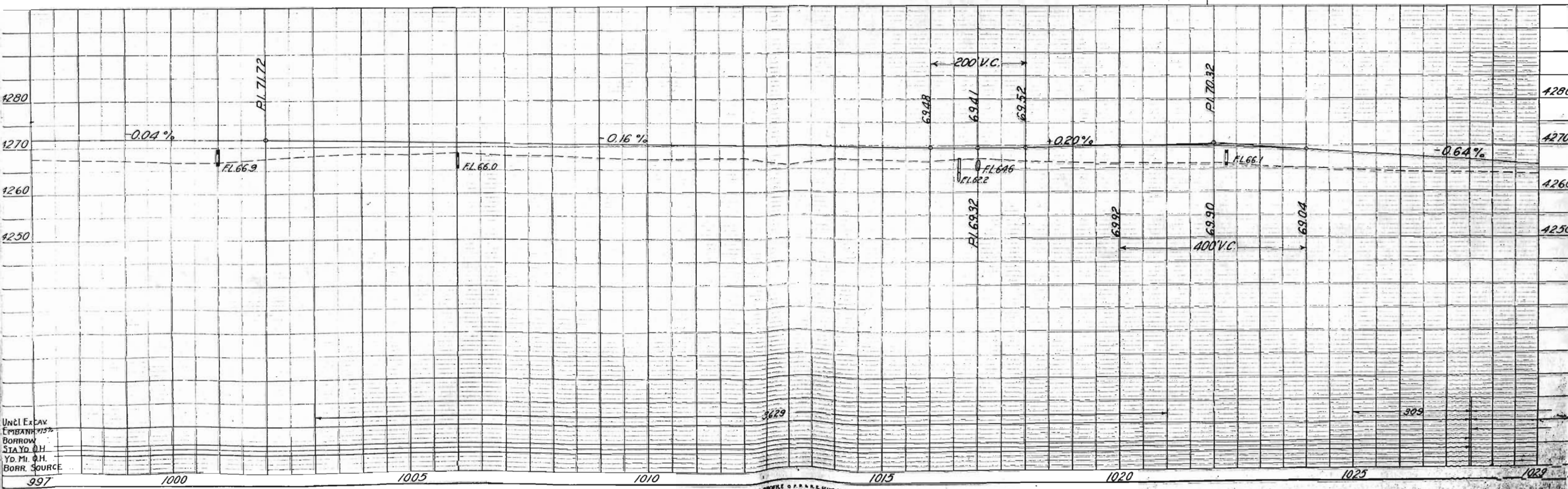
STA. 1006+00-
Reqd 2'x2'x46' C.B.C. &
25 cu yds uncl. excav. for inlet
& outlet.

STA. 1016+60-
Reqd 24"x106' C.M.P. siphon,
H=3.5, and 15 cu yds uncl.
excav. for ditch changes.
No drain reqd.

STA. 1017+00-
Reqd 24"x72' C.M.P. Culv. &
25 cu yds uncl. excav. for
inlet & outlet.



N.E. 4 SEC. 18



UNCL EXCAV
EMBANK 75%
BORROW
STA TO O.H.
YD. M. O.H.
BORR. SOURCE

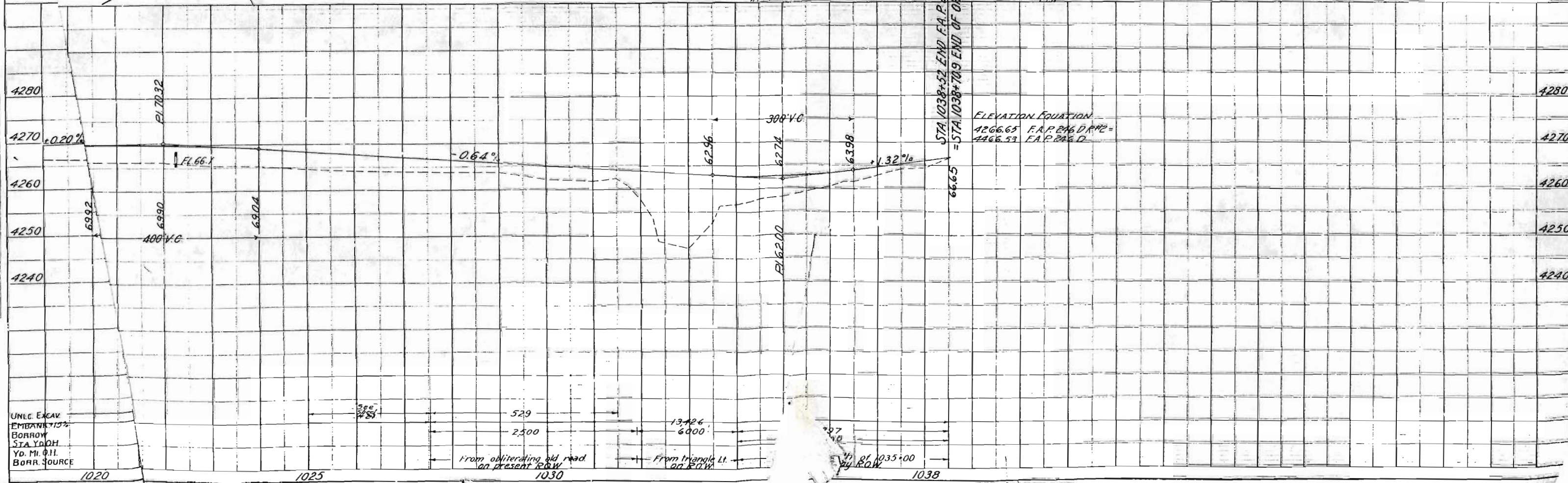
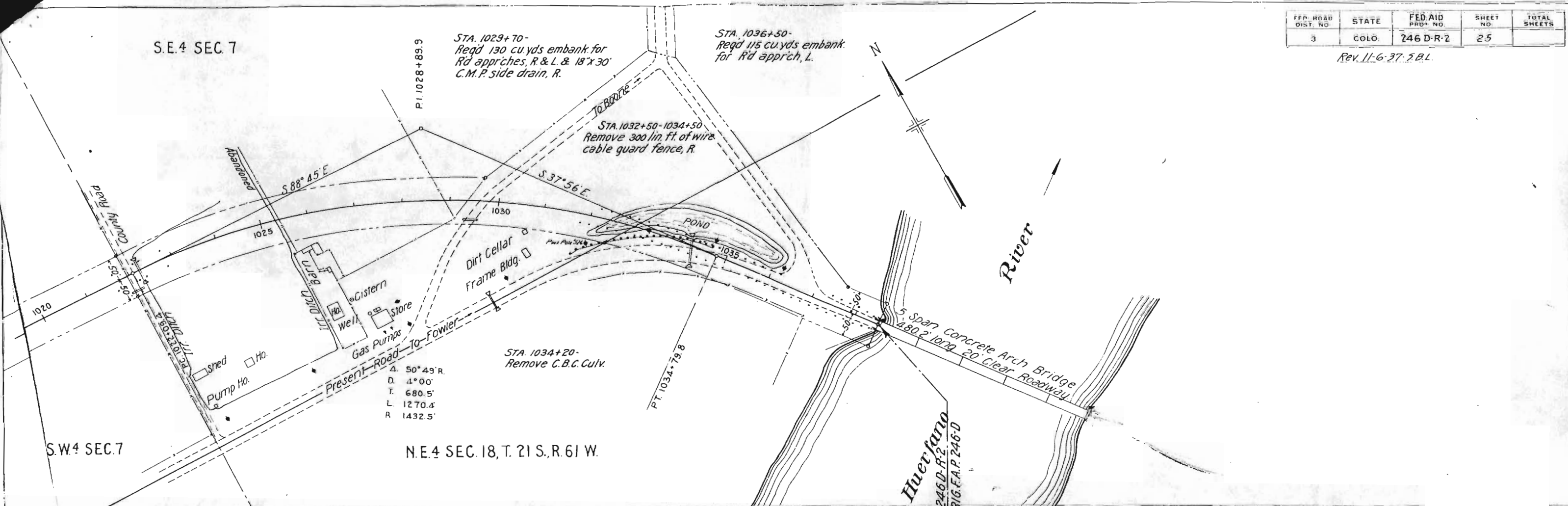
S.E. 4 SEC. 7

S.W. 4 SEC. 7

N.E. 4 SEC. 18, T. 21 S., R. 61 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246 D-R-2	25	

REV. 11-6-37 J.B.L.



FAP 246 DR^{#2}

AYONDALE



11/16/1914

NO

FREDERICA MESA

STELLA B. M'HARG

STELLA B. M'HARG

STELLA B. M'HARG

STELLA B. M'HARG

RANGE 62 W.

TWP. 21 S.

7

LOT 23

LOT 22

LOT 21

LOT 20

LOT 19

LOT 18

LOT 17

LOT 16

LOT 15

LOT 14

LOT 24

LOT 25

LOT 26

LOT 27

LOT 28

LOT 29

LOT 30

LOT 31

LOT 32

LOT 33

685

690

695

700

705

710

715

720

725

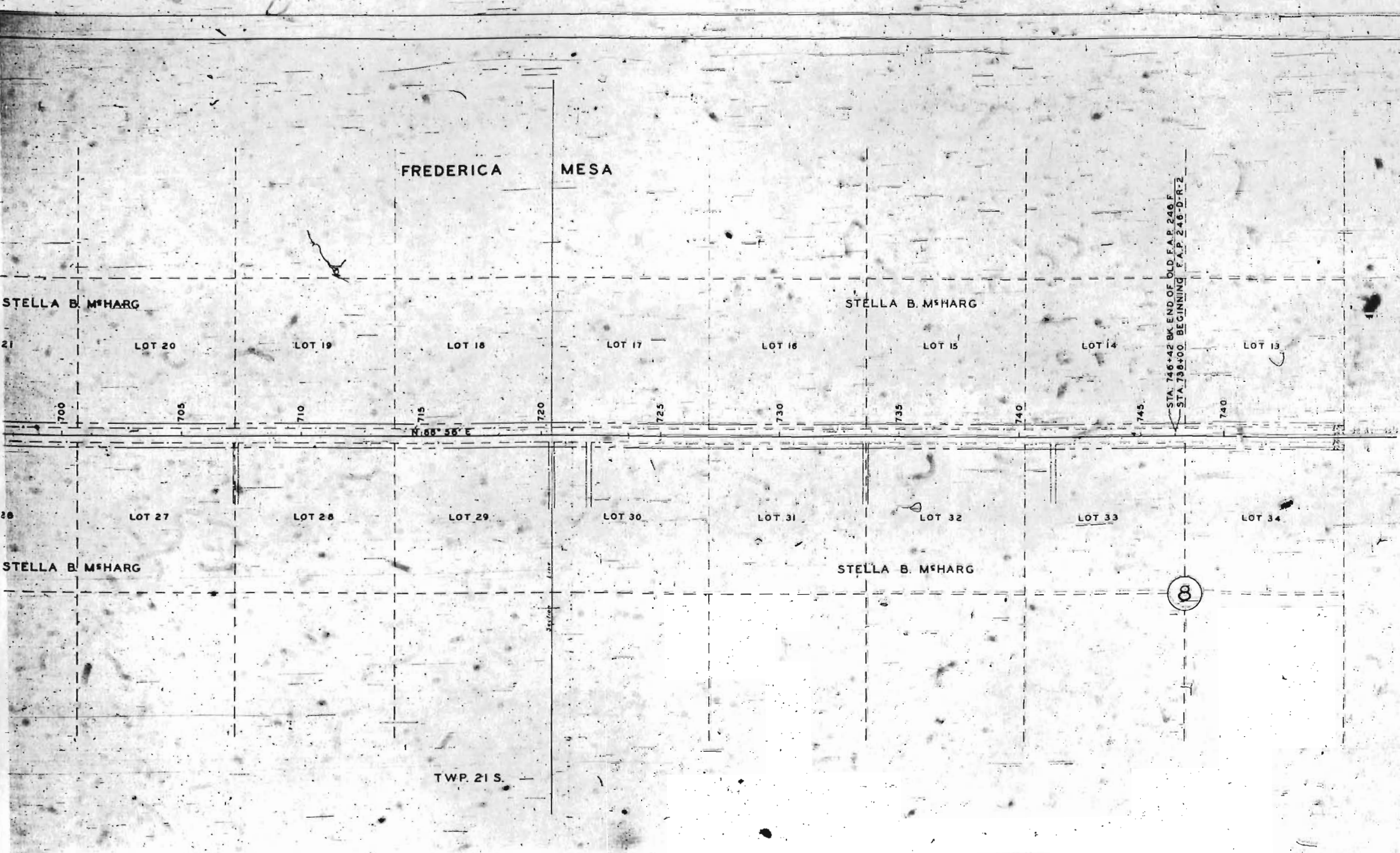
730

735

740

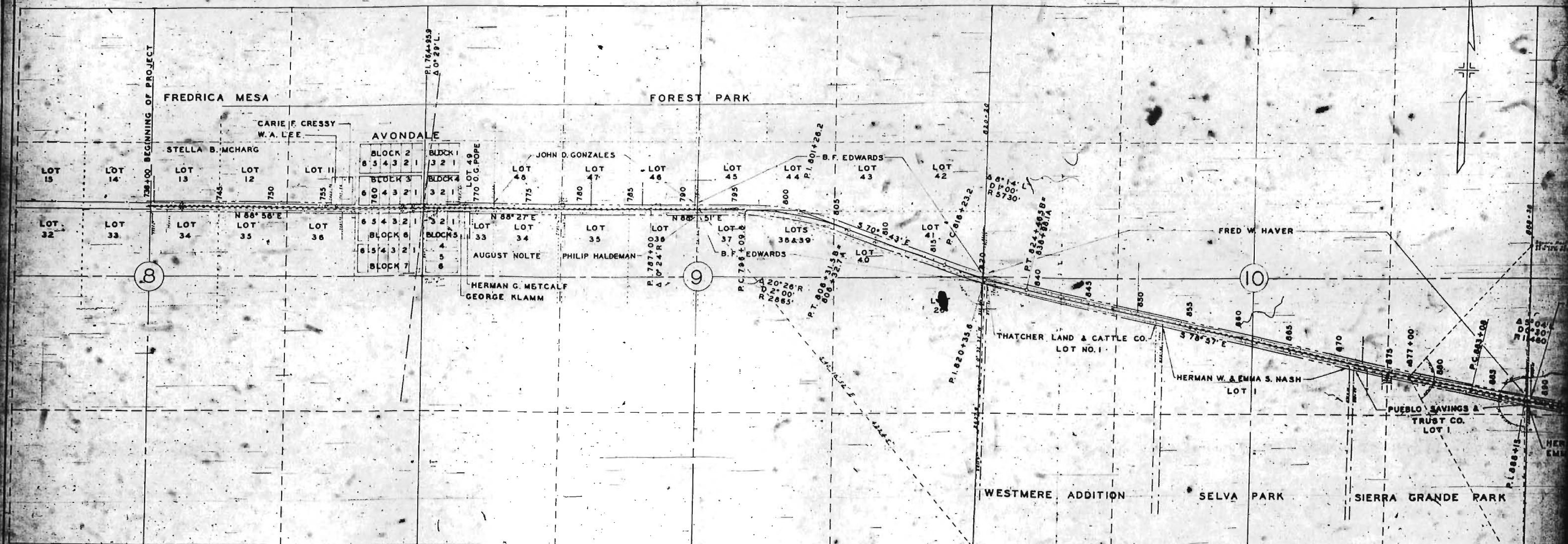
745

N. 68° 56' E



COLORADO
STATE HIGHWAY DEPARTMENT
RIGHT OF WAY MAP
PROJECT
PUEBLO COUNTY
SH. 6 U.S. 50 SCALE 1 IN. = 200 FT.
DRAWN BY: J.S.T. JANUARY 4, 1938
SUPPLEMENTAL TO F.A.P. 246-DR-2
FOR ADDITIONAL RIGHT-OF-WAY ON OLD
F.A.P. 246-F AT STATE & COUNTY EXP-
ENSE AS PER WORK ORDER NO. 765.
LEGEND:
LOT LINES
FENCE
R.O.W. LINE
CENTER LINE

STA. 746+42 BK. END OF OLD F.A.P. 246-F
STA. 738+00 BEGINNING F.A.P. 246-D-R-2

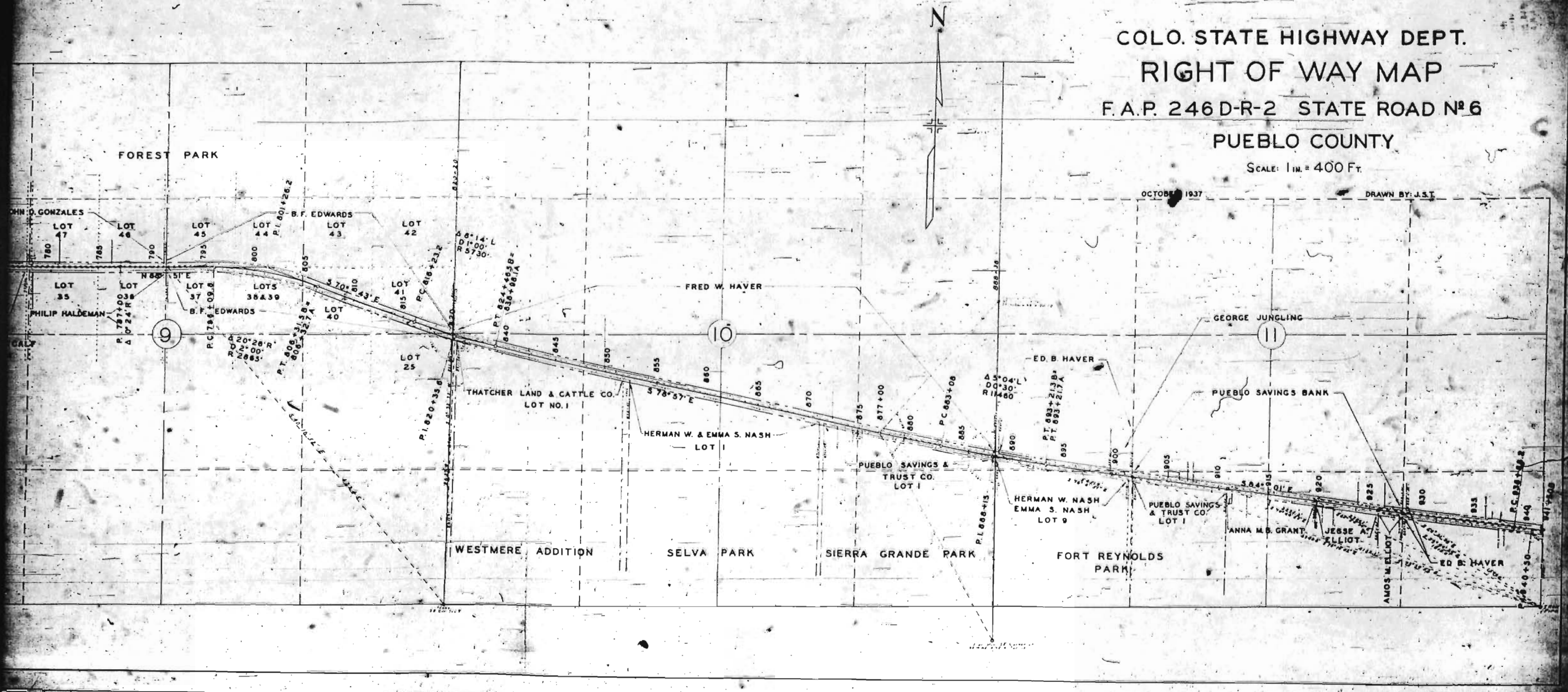


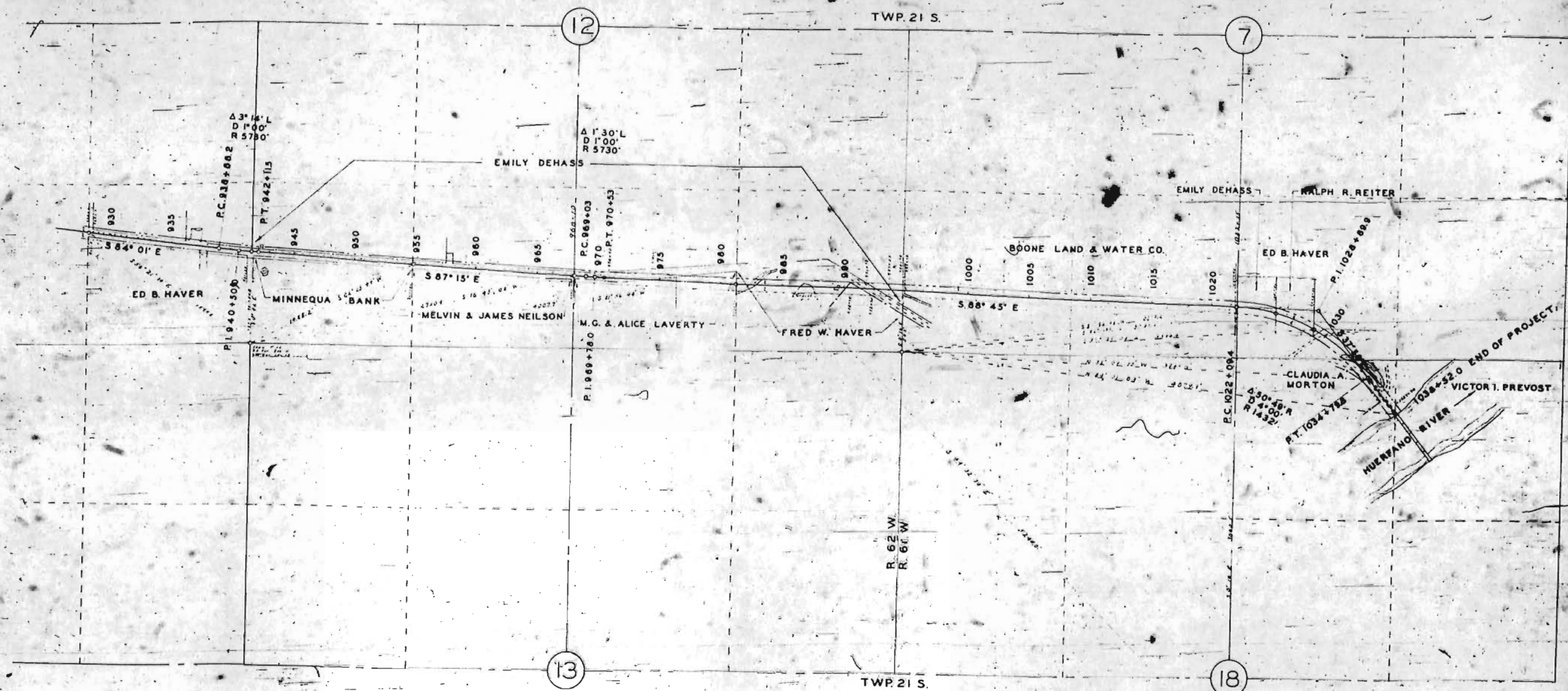
COLO. STATE HIGHWAY DEPT.
RIGHT OF WAY MAP
F.A.P. 246 D-R-2 STATE ROAD NO. 6
PUEBLO COUNTY

SCALE: 1 in. = 400 Ft.

OCTOBER 1937

DRAWN BY: J.S.T.





12

TWP. 21 S.

7

R.O.W. MAP

F.A.P. 246 D-R-2, STATE ROAD 6

SHEET #2 OF 3 SHEETS

N

A 1'30" L
D 1'00" L
R 5730'

EMILY DEHASS

PC 989+03
PT 970+33

M.G. & ALICE LAVERTY

FRED W. HAVER

BOONE LAND & WATER CO.

EMILY DEHASS

RALPH R. REITER

ED B. HAVER

CLAUDIA A. MORTON

VICTOR I. PREVOST

HUERFANO RIVER

END OF PROJECT

13

TWP. 21 S.

18

R. 62 W.
R. 61 W.

PC 1022+08.4

PT 1034+798

1038+52.0

STELLA B. M'HARG
LOT II

STELLA B. M'HARG
LOT 36

WILL CRITES

STELLA B. M'HARG W.W. CAWLFIELD

STELLA B. M'HARG

EMMA SMITH

STELLA B. M'HARG

GERALD A. VALENTINE

EDWIN J. McDONALD GERALD A. VALENTINE

W. H. CARPENTER
— BESSIE L. CARPENTER

GEO. KLAMM
&
EMMA QUANDT

HERMAN G. METCALF

BLOCK 3

BLOCK 4

BLOCK 6

BLOCK 5

EDWIN J. McDONALD

NELSE F. DANIELSON

LILLIAN E. SCHWARTZ

AVONDALE M.E. CHURCH
— TRUSTEES —

N 88° 56' E

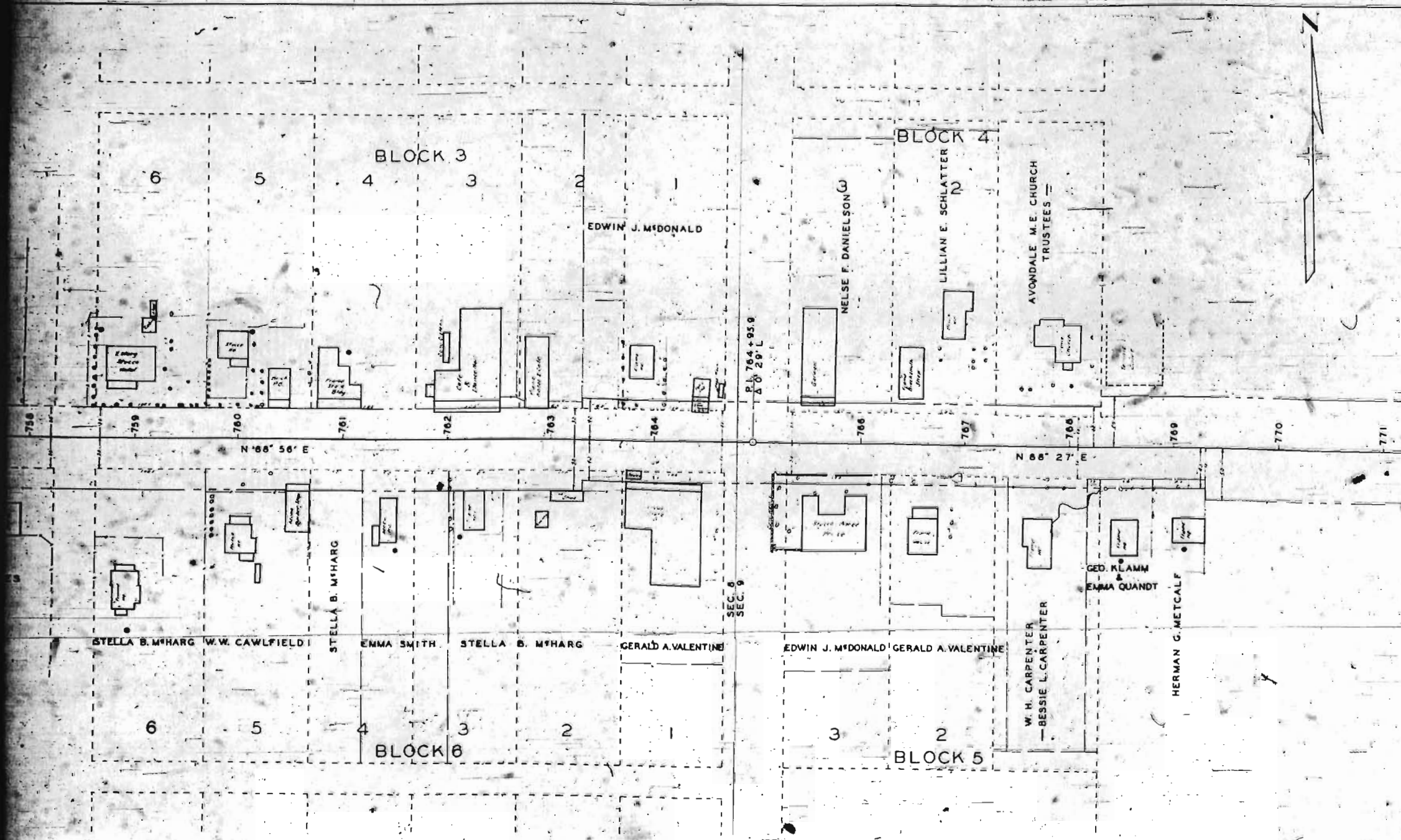
N 88° 27' E

PL 764 + 95.0
Δ 20' L

SEC 8
SEC 9

R. O. W. MAP
TOWN OF AVONDALE
F.A.P. 246 D-R-2 PUEBLO COUNTY
SHEET NO. 3 OF 3 SHEETS
SCALE: 1 INCH = 50 FT.

Center Line of Survey
Right of Way Lines
Lot Lines
Barbed Wire Fence
Combination Fence
Tree
Cistern
Property Lines



COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 246D-R^{#2} STATE HIGHWAY NO. 6 PUEBLO COUNTY

INDEX OF SHEETS

SHEET NO. 1 - TITLE SHEET

- " 2 - TYPICAL SECTION & SUMMARY
- " 3-4 - LIST OF STRUCTURES & FENCING LIST
- " NO. 5 - BRIDGE DETAILS, STA. 794+
- " 6 - DETAILS FOR MINOR STRUCTURES
- " 7 - STANDARD CONCRETE BOX CULV. M-103-D
- " 8 - SPECIAL " " M-104-D
- " 9 - STD. HD WALLS FOR C.M.P. CULVTS M-102-E
- " 10 - CORR. IRON SIPHON PIPE WITH CONC. INLET & OUTLET BOXES M-123-A
- " 11 - STD. CATTLE GUARD, 16' ROADWAY M-16-A
- " 12 - TIMBER GUARD POSTS M-19-A
- " 13 - WIRE FENCES - STEEL POSTS M-27-A
- " 14 - METHODS - SUPERELEV. & WIDENING M-1-B
- " 15 - TYPICAL SIDE APPROCH ROADS - SIGNS M-2-B
- " 16-25 - PLAN & PROFILE SHEETS
- " 26-31 & 30A - CROSS SECTIONS
- " 6-A - STD. MANHOLES, INLETS & PIPE JOINTS ON SEWERS M-12-B

SCALES OF ORIGINAL TRACINGS

ON PLAN, 1 IN. = 100 FT.

ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT } 28,598.8 FT. = 5.416 MI.
NET LENGTH OF PROJECT }

246.041802

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY _____

RIGHT OF WAY LINES _____

TOWNSHIP LINES _____

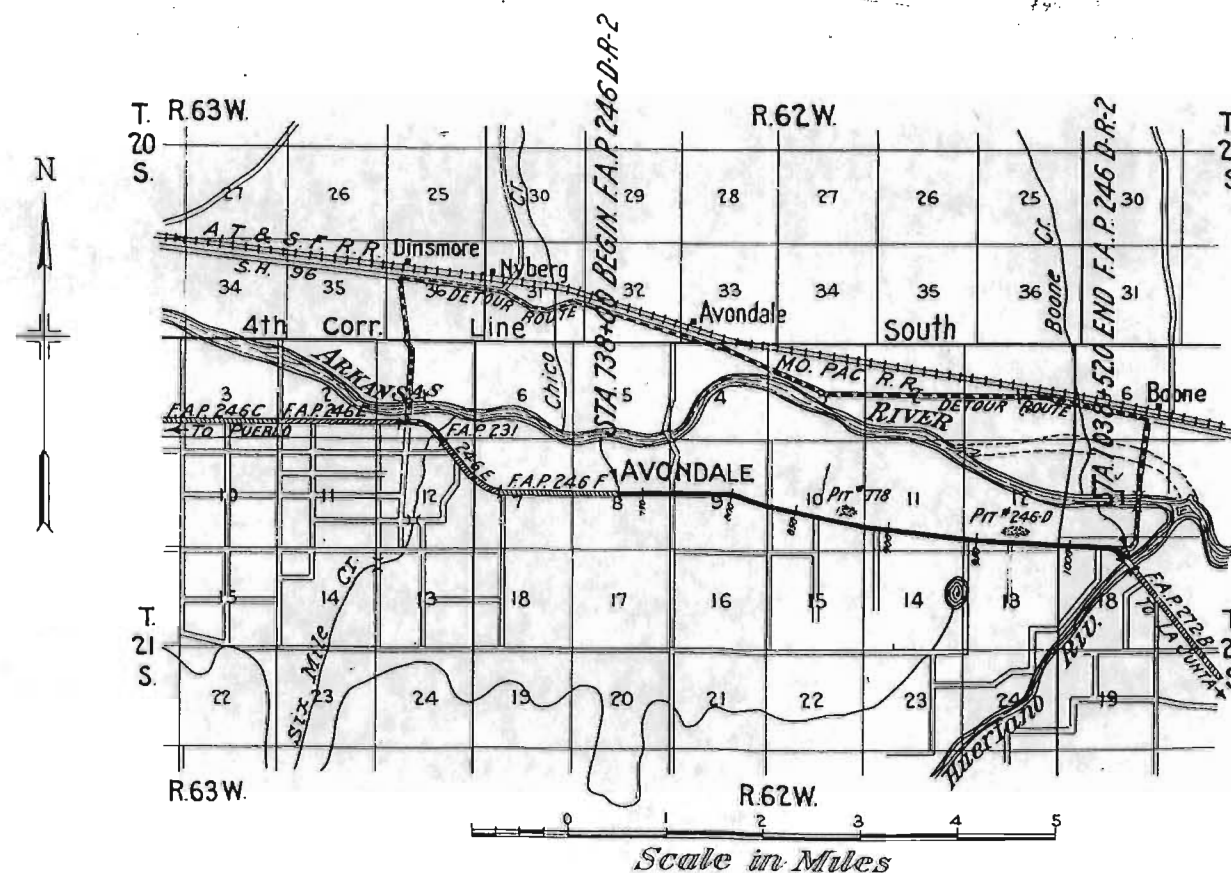
SECTION LINES _____

ONE QUARTER SECTION LINE _____

BARBED WIRE FENCE _____

RAILROADS ++++++ _____

POLE LINES



NOTE: It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this Department.

Jas. D. Bell, Division Engineer, located at Pueblo.

R.S. Trillson, Resident Engineer, " " "

RECOMMENDED FOR APPROVAL 10-15-37

J. H. Maloney
ASSISTANT ENGINEER

APPROVED
Charles J. Vail
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

DIRECTOR BUREAU PUBLIC ROADS

S.W. 4 SEC. 7, T. 21 S., R. 61 W.

STA. 1022+00-
Reqd 115 cu yds embank for
Rd approaches R. & L. Also 18" x 30"
C.M.P. side drain, RT.

STA. 1022+25-
Reqd 2' x 2' x 48' C.B.C.

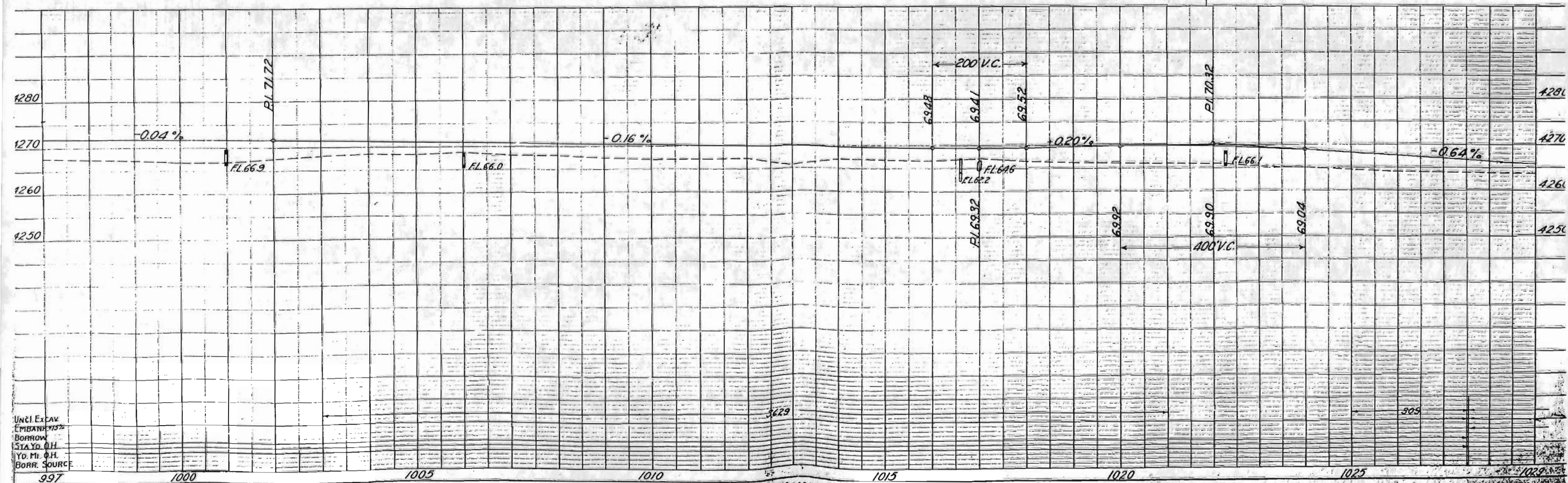
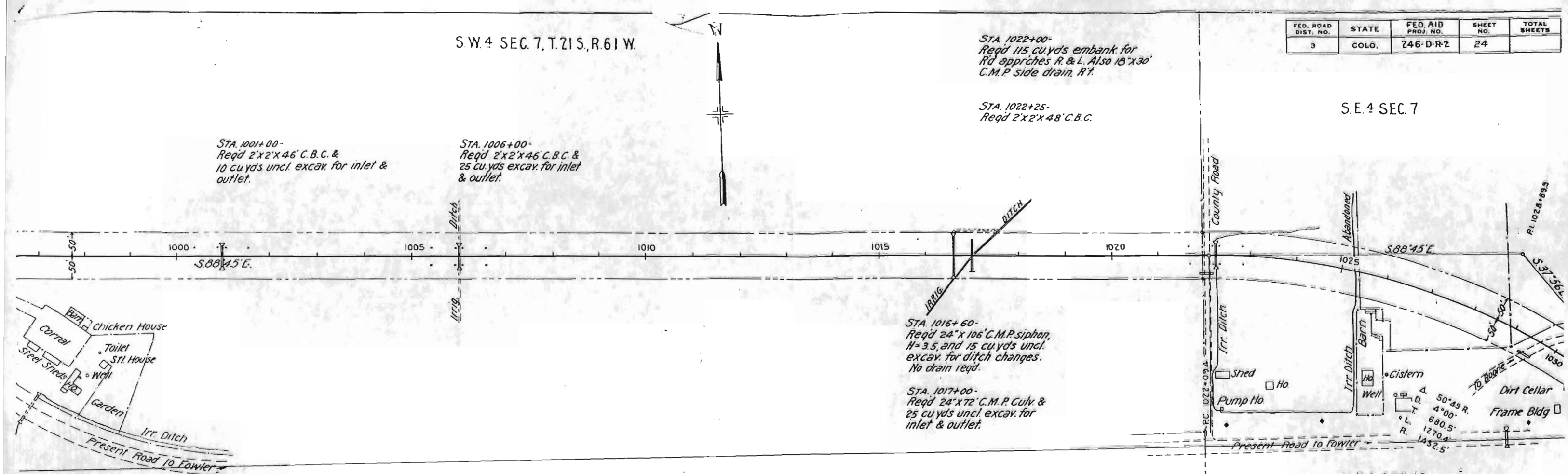
STA. 1001+00-
Reqd 2' x 2' x 46' C.B.C. &
10 cu yds uncl. excav. for inlet &
outlet.

STA. 1006+00-
Reqd 2' x 2' x 46' C.B.C. &
25 cu yds excav. for inlet
& outlet.

S.E. 4 SEC. 7

N.E. 4 SEC. 18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	246-D-R-2	24	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	746 D-R-2	25	

Rev. 11-6-37 S.B.L.

